

---

## *CURRICULUM VITAE – March 2020*

---

**NAME** Alessandro Martucci

**CONTACT INFORMATION**

Dipartimento di Ingegneria Industriale  
Università di Padova  
Via Marzolo, 9  
35131 Padova - Italy  
Telephone (+39-049) 827-5506  
E-Mail alex.martucci@unipd.it  
Web Site www.dii.unipd.it/martucci  
www.nanoeng.dii.unipd.it

**CITIZENSHIP**

Italian

**CURRENT APPOINTMENT**

Full Professor of Materials Science and Engineering

**RECENT APPOINTMENTS**

2007-Oct 2019 Associate Professor Materials Science and Engineering, Università di Padova  
1999-2007 Lecturer Materials Science and Engineering, Università di Padova

**RESEARCH AREAS**

26 years of research activities in the field of glass, ceramics, and nanocomposite films obtained by wet chemistry for photonic, optical, and gas sensor applications.

**EDUCATION**

1997 Ph.D. Materials Science and Engineering, Università di Bologna  
Thesis: *Sol-Gel Films for Integrated Optics: Optical Waveguides Doped with Semiconductor Nanocrystals or with Rare Earths*  
1993 B.Sc. Physics, Università di Padova  
Thesis: *Introduction of Quantum Dots in Thin Vitreous Films by the Sol-Gel Method: Structural and Optical Characterisation*

**AWARDS AND SCHOLARSHIPS**

1999 STA fellowship Research Fellow, National Institute of Materials and Chemical Research Tsukuba (Japan)  
Activities: Sol-gel nanostructured materials for gas sensing applications  
1998-99 Univ. Fellowship Postdoctoral Fellow, Università di Padova  
Activities: Innovative glass materials for photonics  
1997-98 EU Fellowship Postdoctoral Fellow, Università di Padova  
Activities: Silica-germania sol-gel active glasses

**VISITING APPOINTMENTS**

2017	Visiting Professor, RMIT University Melbourne, Australia	Dr. Enrico Della Gaspera
2013, 2016	Visiting Scientist, University of New South Wales, Australia	Prof. Charles C. Sorrell
2010	Visiting Professor, Swinburne University, Australia	Prof. Min Gu
2008	Visiting Scientist, Institute for Chemical Process & Environmental Technology, National Research Council of Canada	Dr. Mike Post
2002, 03, 04, 05, 06, 09, 11, 12, 14, 19	Visiting Professor, Melbourne University, Australia	Prof. Paul Mulvaney
2004	Visiting Professor, University of Moncton, Canada	Prof. Alain Ache
2002	Visiting Professor, Université de Lille I, France	Prof. Sylvia Turrell

**TEACHING**

19 years of teaching experience, including *Materials Science and Engineering* (undergraduate), *Nanostructured Material* (Master's students), *Materials Technology* (Master's students).

Supervisor of 11 PhD students, including:

2017 Dr. Elena Colusso *Silk based nanocomposites for biophotonic and optical devices*

- 2016 Dr. Andrea Paduano *Advanced Ceramics for Energy and Catalysis*  
 2015 Dr. Marco Angiola *Carbon Based Materials for Plasmonic Gas Sensors*  
 2013 Dr. Michela Cittadini *Nanostructured Materials for Plasmonic Based Sensors*  
 2012 Dr. Marta Dai Pré, *Nanocomposites for Optical Applications*  
 2011 Dr. Enrico Della Gaspera, *Noble Metal/Metal Oxide Nanocomposite Thin Films for Optical Gas Sensors*  
 2008 Dr. Dario Buso, *Sol-Gel Films Containing Metal and Semiconductor Nanoparticles for Gas Sensing*

#### **PUBLICATIONS / CITATIONS**

<b>Career</b>	<b>Number of Publications since 1993</b>	<b>&gt;250</b>
<b>SCOPUS</b>	Database Number of Publications since 1993	<b>231</b>
	Number of Citations (Total)	<b>4660</b>
	Number of Citations (Excluding Self)	<b>4191</b>
	Average Number of Citations per Publication	<b>20.26</b>
	h-Index	<b>39</b>
<b>Google Scholar</b>	Database Number of Publications since 1993	<b>298</b>
	Number of Citations (Total)	<b>5703</b>
	Average Number of Citations per Publication	<b>19.14</b>
	h-Index	<b>42</b>
	i10-index	<b>135</b>

Relevance of the publications: 3 papers with  $IF > 20$  (Adv.Mat. 21.95) 7 papers with  $10 < IF < 20$  (4 Adv.Fun.Mat. 13.325, 2 ACS Nano 13.709, 1 J.Am.Chem.Soc. 14.357) and 38 papers with  $5 < IF < 10$  (4 J. Mat. Chem. C 5.976, 4 J. Mat. Chem. 6.626, 2 Carbon 7.082, 7 ACS Appl.Mat.Inter. 8.097, 3 Nanoscale 7.233, 1 J. Mat. Chem. A 9.931, 5 Chem.Mat. 9.89, Sens.Act. B 12 5.667).

**Other publications:** *Book chapters:* 6; *Patents:* 3.

#### **INVITED TALKS AND LECTURES**

Delivered over 30 invited lectures at various international conferences and universities, including:

- 44th International Conference and Expo on Advanced Ceramics and Composites 2020 – Daytona Beach 26-31 Jan 2020  
*Silk-titanate nanosheets composites for biophotonic and plasmonic devices*  
 25th International Congress on Glass 2019 – Boston 9-4 June 2019  
*Solution processed nanostructured materials for photonics and energy applications*  
 43th International Conference and Expo on Advanced Ceramics and Composites 2019 – Daytona Beach 27 Jan -1 Feb 2019  
*Optical gas sensors based on surface plasmon resonance*  
 Glass & Optical Materials Division Annual Meeting 2018- San Antonio 20-24 May 2018  
*Solution processed nanostructured materials for functional applications*  
 42th International Conference and Expo on Advanced Ceramics and Composites 2018 – Daytona Beach 21-26 January 2018  
*Degenerately doped zinc oxide nanocrystals as plasmonic and chemoresistive gas sensors*  
 The International Chemical Congress of Pacific Basin Societies 2015- Honolulu 15-20 December 2015  
*Plasmonic nanoparticles to boost the response dynamic and sensitivity of optical gas sensors based on metal oxide.*  
 American Chemical Society National Meeting 2015 – Denver  
*Optical gas sensors based on localized surface plasmon resonance*  
 39th International Conference and Expo on Advanced Ceramics and Composites 2015 – Daytona Beach  
*Nanostructured thin films from nanocrystalline inks*  
 Nanotech Italy 2013 – Venice  
*Graphene oxide coupled with gold nanoparticles for localized surface plasmon resonance-based gas sensor*  
 SPIE Photonics Europe 2012 – Brussels  
*Sol-Gel Thin Films for Photonic Devices*  
 PACRIM 2011 Conference on Ceramic and Glass Technology – Cairns  
*Au Nanoparticles inside Porous Metal Oxide Thin Films: High Performance Optical Gas Sensors through Localised Surface Plasmon Resonance*  
*Optical Gas Sensing Properties of SiO<sub>2</sub> Porous Sol-Gel Film Containing Metal Oxide and Noble Metal Nanoparticles*  
 SPIE Photonics West 2011 – San Francisco  
*Luminescence and Amplified Stimulated Emission of Quantum Dot Doped Sol-Gel Waveguides*  
 International Congress on Glass 2010 – Salvador de Bahia  
*Luminescence and Amplified Stimulated Emission of Quantum Dot Doped Sol-Gel Waveguides*  
 IMCS 2010 International Meeting on Chemical Sensors – Perth  
*Sol-Gel Films Containing Metal and Semiconductor Nanoparticles for Gas Sensing*

#### **INSTITUTIONAL RESPONSABILITIES**

- From October 2019 *Coordinator of the Master Programs in Materials Engineering*, Padova University;  
 From 2005 - now *Member of the Board of Directors of the PhD School on Science and Engineering of Materials and Nanostructures*, Padova University;  
 From 2005 to 2019 *Member of the Department Research Board*, Department of Industrial Engineering, Padova University;  
 From 2019 - now *Member of the Department Teaching Board*, Department of Industrial Engineering, Padova University;  
 From 2015 – now *Member of the Internationalization Board* of Padova University.

## COMMISSIONS OF TRUST

From 2016 Assistant Editor Journal of Sol-Gel Science and Technology.  
From 2017 Assistant Editor Advances in Materials Science and Engineering  
From 2019 Member of the Editorial Advisory Board of Small

## GRANT REFEREE

From 2016 <i>Fundacao para a Ciencia e a Tecnologia</i>	Portugal
From 2012 <i>Qatar National Research Fund</i>	Qatar
From 2010- <i>Research Grants Council of Hong Kong</i>	Hong Kong
From 2009- <i>Alberta Ingenuity</i>	Canada

## PUBLICATIONS IN PRINT – A. MARTUCCI – 1993 - Present

### Book Chapters

1. Guglielmi, M., Martucci, A. *Sol-gel nanocomposites* (2018) in: *Handbook of Sol-Gel Science and Technology: Processing, Characterization and Applications*, pp. 3041-3063.
2. Della Gaspera E, Guglielmi M., Martucci A. *Sol-gel for gas sensing applications* in: D. Levy, M. Zayat, *The sol-gel handbook* (2015) 1172-1206, Wiley Ed.
3. Martucci A. *Characterization methods* in: M. Guglielmi, G. KICKELBICK, A. Martucci, *Sol-gel Nanocomposites* (2014) 83-108, Springer Ed.
4. Fortunati I; Signorini R; Bozio R; Jasieniak JJ; Martucci A; Antonello A; Della Giustina G; Brusatin G; Guglielmi M; Bello V; Mattei G. *Multiphoton Optical Properties of Semiconductor Core-Shell Quantum Dots for Photonic Applications*. In: Francois Kajzar. *Nonlinear Optics, Quantum Optics: Concepts in Modern Optics*. Takayoshi Kobayashi (2010) 40, 149-161.
5. Fortunati I; Gardin S; Todescato F; Signorini R.; Bozio R; Jasieniak JJ; Martucci A; Della Giustina G; Pistore A; Brusatin G; Guglielmi M; Prasciolu M; Romanato F. *Laser Devices Based on One- and Two-Photon Pumped Semiconductor Core-Shell Quantum Dots*. In: Francois Kajzar. *Nonlinear Optics, Quantum Optics: Concepts in Modern Optics* (2010) 41, 73-86.
6. Fick J; Martucci A. *Lead Sulfide Nanoparticles*. In: H.S. Nalawa. *Encyclopedia of Nanoscience and Nanotechnology*, (2004) 481-504.

### Refereed Journal Publications

7. Arsecularatne, J.A., Colusso, E., Della Gaspera, E., Martucci, A., Hoffman, M.J. Nanomechanical and tribological characterization of silk and silk-titanate composite coatings (2020) *Tribology International*, 146, art. no. 106195.
8. Parin, R., Rigon, M., Bortolin, S., Martucci, A., Col, D. Optimization of hybrid sol-gel coating for dropwise condensation of pure steam (2020) *Materials*, 13 (4), art. no. 0878.
9. Landry, A., Son, T.V., Martucci, A., Haché, A. Color switching by polarization effects in phase change materials (2020) *Optics Communications*, 459, art. no. 124957.
10. Zargouni, S., El Whibi, S., Tessarolo, E., Rigon, M., Martucci, A., Ezzaouia, H. Structural properties and defect related luminescence of Yb-doped NiO sol-gel thin films (2020) *Superlattices and Microstructures*, 138, art. no. 106361.
11. Elliott, J.D., Xu, Z., Umari, P., Jayaswal, G., Chen, M., Zhang, X., Martucci, A., Marsili, M., Merano, M. Surface susceptibility and conductivity of MoS<sub>2</sub> and WSe<sub>2</sub> monolayers: A first-principles and ellipsometry characterization (2020) *Physical Review B*, 101 (4), art. no. 045414.
12. Shabnam, L., Faisal, S.N., Martucci, A., Gomes, V.G. Non-enzymatic multispecies sensing of key wine attributes with nickel nanoparticles on N-doped graphene composite (2020) *Journal of Solid State Electrochemistry*, 24 (1), pp. 45-56.
13. Shabnam, L., Faisal, S.N., Hoang, V.C., Martucci, A., Gomes, V.G. Doping reduced graphene oxide and graphitic carbon nitride hybrid for dual functionality: High performance supercapacitance and hydrogen evolution reaction (2020) *Journal of Electroanalytical Chemistry*, 856, art. no. 113503.
14. Bonora, R., Boaretti, C., Campea, L., Roso, M., Martucci, A., Modesti, M., Lorenzetti, A. Combined AOPs for formaldehyde degradation using heterogeneous nanostructured catalysts (2020) *Nanomaterials*, 10 (1), art. no. 148.
15. Parin, R., Sturaro, M., Bortolin, S., Martucci, A., Del Col, D. Heat transfer during dropwise condensation of steam over a mirror polished sol-gel coated aluminum substrate (2019) *International Journal of Thermal Sciences*, 144, pp. 93-106.
16. Azmi, S., Pezzato, L., Sturaro, M., Khoumri, E.M., Martucci, A., Dabalà, M. A green and low-cost synthetic approach based on deep eutectic choline-urea solvent toward synthesis of CZTS thin films (2019) *Ionics*, 25 (6), pp. 2755-2761.
17. Pezzato, L., Rigon, M., Martucci, A., Brunelli, K., Dabalà, M. Plasma Electrolytic Oxidation (PEO) as pre-treatment for sol-gel coating on aluminum and magnesium alloys (2019) *Surface and Coatings Technology*, 366, pp. 114-123.
18. Shakibi Nia, N., Martucci, A., Granozzi, G., García, G., Pastor, E., Penner, S., Bernardi, J., Alonso-Vante, N., Kunze-Liebhäuser, J. DEMS studies of the ethanol electro-oxidation on TiO<sub>2</sub>C supported Pt catalysts—Support effects for higher CO<sub>2</sub> efficiency (2019) *Electrochimica Acta*, 304, pp. 80-86.
19. Zargouni, S., Derbali, L., Ouadhour, M., Rigon, M., Martucci, A., Ezzaouia, H. Elaboration and characterization of PVP-assisted NiO thin films for enhanced sensitivity toward H<sub>2</sub> and NO<sub>2</sub> gases (2019) *Ceramics International*, 45 (5), pp. 5779-5787.
20. Colusso, E., Martucci, A., Neto, C. Fabrication of Biomimetic Micropatterned Surfaces by Sol-Gel Dewetting
21. (2019) *Advanced Materials Interfaces*, 6 (4), art. no. 1801629.

22. Sturaro, M., Zacco, G., Zilio, P., Surpi, A., Bazzan, M., Martucci, A. Gold nanodisks plasmonic array for hydrogen sensing at low temperature (2019) *Sensors (Switzerland)*, 19 (3), art. no. 647.
23. Colusso, E., Vitiello, D., Perotto, G., Valotto, G., Cattaruzza, E., Martucci, A. Functionalization of Titanates–Silk Nanocomposites via Cation Exchange for Optical Applications (2019) *Advanced Materials Interfaces*, 6 (2), art. no. 1800992.
24. Giordano, G., Durante, C., Michieli, N., Gennaro, A., Martucci, A., Guglielmi, M. SiO<sub>2</sub>-TiO<sub>2</sub> multilayer via electrochemical deposition: characterization of reflection and refractive index (2019) *Journal of Sol-Gel Science and Technology*, 89 (1), pp. 196-204.
25. Guglielmi, M., Martucci, A. 7101878831;7006799064; Sol-gel nanocomposites for optical applications (2018) *Journal of Sol-Gel Science and Technology*, 88 (3), pp. 551-563.
26. Pelizzo, M.G., Corso, A.J., Tessarolo, E., Böttger, R., Hübner, R., Napolitani, E., Bazzan, M., Rancan, M., Armelao, L., Jark, W., Eichert, D., Martucci, A. Morphological and Functional Modifications of Optical Thin Films for Space Applications Irradiated with Low-Energy Helium Ions (2018) *ACS Applied Materials and Interfaces*, 10 (40), pp. 34781-34791.
27. Enrichi, F., Belmokhtar, S., Benedetti, A., Bouajaj, A., Cattaruzza, E., Coccetti, F., Colusso, E., Ferrari, M., Ghamgosar, P., Gonella, F., Karlsson, M., Martucci, A., Ottini, R., Riello, P., Righini, G.C., Trave, E., Vomiero, A., You, S., Zur, L. Ag nanoaggregates as efficient broadband sensitizers for Tb<sup>3+</sup> ions in silica-zirconia ion-exchanged sol-gel glasses and glass-ceramics (2018) *Optical Materials*, 84, pp. 668-674.
28. Parin, R., Martucci, A., Sturaro, M., Bortolin, S., Bersani, M., Carraro, F., Del Col, D. Nano-structured aluminum surfaces for dropwise condensation (2018) *Surface and Coatings Technology*, 348, pp. 1-12.
29. Marisa, I., Matozzo, V., Martucci, A., Franceschinis, E., Brianese, N., Marin, M.G. Bioaccumulation and effects of titanium dioxide nanoparticles and bulk in the clam *Ruditapes philippinarum* (2018) *Marine Environmental Research*, 136, pp. 179-189.
30. Corso, A.J., Tessarolo, E., Guidolin, M., Della Gaspera, E., Martucci, A., Angiola, M., Donazzan, A., Pelizzo, M.G. Room-temperature optical detection of hydrogen gas using palladium nano-islands (2018) *International Journal of Hydrogen Energy*, 43 (11), pp. 5783-5792.
31. Gaspera, E.D., Menin, E., Maggioni, G., Sada, C., Martucci, A. Au nanoparticle sub-monolayers sandwiched between sol-gel oxide thin films (2018) *Materials*, 11 (3), art. no. 423, .
32. Zhu, W., Kammuri, T., Kitamura, S., Sturaro, M., Martucci, A., Pezzotti, G. Structure and composition evaluation of heavily Ge-doped ZnO nanocrystal films (2018) *Journal of Physics D: Applied Physics*, 51 (8), art. no. 085302, .
33. Jayaswal, G., Dai, Z., Zhang, X., Bagnarol, M., Martucci, A., Merano, M. Measurement of the surface susceptibility and the surface conductivity of atomically thin MoS<sub>2</sub> by spectroscopic ellipsometry (2018) *Optics Letters*, 43 (4), pp. 703-706.
34. Magri, D., Caputo, G., Perotto, G., Scarpellini, A., Colusso, E., Drago, F., Martucci, A., Athanassiou, A., Fragouli, D. Titanate Fibroin Nanocomposites: A Novel Approach for the Removal of Heavy-Metal Ions from water (2018) *ACS Applied Materials and Interfaces*, 10 (1), pp. 651-659.
35. Zargouni, S., Derbali, L., Ouadhour, M., Rigon, M., Martucci, A., Ezzaouia, H. Elaboration and characterization of PVP-assisted NiO thin films for enhanced sensitivity toward H<sub>2</sub> and NO<sub>2</sub> gases (2018) *Ceramics International*, . Article in Press.
36. Colusso, E., De Ferrari, F., Minzioni, P., Martucci, A., Wang, Y., Omenetto, F.G. Engineering optical defects in biopolymer photonic lattices (2018) *Journal of Materials Chemistry C*, 6 (5), pp. 966-971.
37. Sekar, P., Calvillo, L., Tubaro, C., Baron, M., Pokle, A., Carraro, F., Martucci, A., Agnoli, S. Cobalt Spinel Nanocubes on N-Doped Graphene: A Synergistic Hybrid Electrocatalyst for the Highly Selective Reduction of Carbon Dioxide to Formic Acid (2017) *ACS Catalysis*, 7 (11), pp. 7695-7703.
38. Biesuz, M., Luchi, P., Quaranta, A., Martucci, A., Sglavo, V.M. Photoemission during flash sintering: An interpretation based on thermal radiation (2017) *Journal of the European Ceramic Society*, 37 (9), pp. 3125-3130.
39. Del Col, D., Parin, R., Bisetto, A., Bortolin, S., Martucci, A. Film condensation of steam flowing on a hydrophobic surface (2017) *International Journal of Heat and Mass Transfer*, 107, pp. 307-318.
40. Colusso, E., Perotto, G., Wang, Y., Sturaro, M., Omenetto, F., Martucci, A. Bioinspired stimuli-responsive multilayer film made of silk-titanate nanocomposites (2017) *Journal of Materials Chemistry C*, 5 (16), pp. 3924-3931.
41. Corso, A.J., Martucci, A., Bazzan, M., Zuppella, P., Garoli, D., Pelizzo, M.G. In situ real-time investigation of hydrogen-induced structural and optical changes in palladium thin films (2017) *Journal of Alloys and Compounds*, 704, pp. 303-310.
42. Genovese, M.E., Colusso, E., Colombo, M., Martucci, A., Athanassiou, A., Fragouli, D. Acidochromic fibrous polymer composites for rapid gas detection (2017) *Journal of Materials Chemistry A*, 5 (1), pp. 339-348.
43. Brandiele, R., Picelli, L., Pilot, R., Causin, V., Martucci, A., Rizzi, G.A., Isse, A.A., Durante, C., Gennaro, A. Nitrogen and Sulfur Doped Mesoporous Carbons, Prepared from Templating Silica, as Interesting Material for Supercapacitors (2017) *ChemistrySelect*, 2 (24), pp. 7082-7090.
44. Rodal-Cedeira, S., Montes-Garcia, V., Polavarapu, L., Solís, D.M., Heidari, H., La Porta, A., Angiola, M., Martucci, A., Taboada, J.M., Obelleiro, F., Bals, S., Pérez-Juste, J., Pastoriza-Santos, I. *Plasmonic Au@Pd Nanorods with Boosted Refractive Index Susceptibility and SERS Efficiency: A Multifunctional Platform for Hydrogen Sensing and Monitoring of Catalytic Reactions* (2016) *Chemistry of Materials*, 28 (24), pp. 9169-9180.
45. Gaiardo, A., Fabbri, B., Giberti, A., Guidi, V., Bellutti, P., Malagù, C., Valt, M., Pepponi, G., Gherardi, S., Zonta, G., Martucci, A., Sturaro, M., Landini, N. *ZnO and Au/ZnO thin films: Room-temperature chemoresistive properties for gas sensing applications* (2016) *Sensors and Actuators, B*, 237, pp. 1085-1094.
46. Angiola, M., Rutherglen, C., Galatsis, K., Martucci, A. *Transparent carbon nanotube film as sensitive material for surface plasmon resonance based optical sensors* (2016) *Sensors and Actuators, B*, 236, pp. 1098-1103.
47. Sturaro, M., Della Gaspera, E., Michieli, N., Cantalini, C., Emanjomah, S.M., Guglielmi, M., Martucci, A. *Degenerately Doped Metal Oxide Nanocrystals as Plasmonic and Chemoresistive Gas Sensors* (2016) *ACS Applied Materials and Interfaces*, 8 (44), pp. 30440-30448.

48. Chiasera, A., Scotognella, F., Valligatla, S., Varas, S., Jasieniak, J., Criante, L., Lukowiak, A., Ristic, D., Gonçalves, R.R., Taccheo, S., Ivanda, M., Righini, G.C., Ramponi, R., Martucci, A., Ferrari, M. *Glass-based 1-D dielectric microcavities* (2016) *Optical Materials*, 61, pp. 11-14.
49. Marisa, I., Matozzo, V., Munari, M., Binelli, A., Parolini, M., Martucci, A., Franceschinis, E., Brianese, N., Marin, M.G. *In vivo exposure of the marine clam Ruditapes philippinarum to zinc oxide nanoparticles: responses in gills, digestive gland and haemolymph* (2016) *Environmental Science and Pollution Research*, 23 (15), pp. 15275-15293.
50. Zhu, W., Kitamura, S., Boffelli, M., Marin, E., Gaspera, E.D., Sturaro, M., Martucci, A., Pezzotti, G. *Analysis of defect luminescence in Ga-doped ZnO nanoparticles* (2016) *Physical Chemistry Chemical Physics*, 18 (14), pp. 9586-9593.
51. Bersani, M., Paduano, A., Favaro, M., Koshy, P., Sorrell, C.C., Martucci, A., Granozzi, G. *Preparation of high-porosity TiOxCy powders from a single templating carbon source* (2016) *Ceramics International*, 42, pp. 7690-7696.
52. Calvillo, L., García, G., Paduano, A., Guillen-Villafuerte, O., Valero-Vidal, C., Vittadini, A., Bellini, M., Lavacchi, A., Agnoli, S., Martucci, A., Kunze-Liebhäuser, J., Pastor, E., Granozzi, G. *Electrochemical Behavior of TiOxCy as Catalyst Support for Direct Ethanol Fuel Cells at Intermediate Temperature: From Planar Systems to Powders* (2016) *ACS Applied Materials and Interfaces*, 8 (1), pp. 716-725.
53. Dai Prè, M., Martucci, A., Martin, D.J., Lavina, S., Di Noto, V. *Structural features, properties, and relaxations of PMMA-ZnO nanocomposite* (2016) *Journal of Materials Science*, 50 (5), pp. 2218-2228.
54. Perotto, G., Cittadini, M., Tao, H., Kim, S., Yang, M., Kaplan, D.L., Martucci, A., Omenetto, F.G. *Fabrication of Tunable, High-Refractive-Index Titanate-Silk Nanocomposites on the Micro- and Nanoscale* (2015) *Advanced Materials*, 27 (42), pp. 6728-6732.
55. Paglia, F., Vak, D., Van Embden, J., Chesman, A.S.R., Martucci, A., Jasieniak, J.J., Della Gaspera, E. *Photonic Sintering of Copper through the Controlled Reduction of Printed CuO Nanocrystals* (2015) *ACS Applied Materials and Interfaces*, 7 (45), pp. 25473-25478.
56. Perazzolo, V., Durante, C., Pilot, R., Paduano, A., Zheng, J., Rizzi, G.A., Martucci, A., Granozzi, G., Gennaro, A. *Nitrogen and sulfur doped mesoporous carbon as metal-free electrocatalysts for the in situ production of hydrogen peroxide* (2015) *Carbon*, 95, pp. 949-963.
57. Collins, S.S.E., Cittadini, M., Pecharrómán, C., Martucci, A., Mulvaney, P. *Hydrogen Spillover between Single Gold Nanorods and Metal Oxide Supports: A Surface Plasmon Spectroscopy Study* (2015) *ACS Nano*, 9 (8), pp. 7846-7856.
58. Gaspera, E.D., Martucci, A. *Sol-gel thin films for plasmonic gas sensors* (2015) *Sensors (Switzerland)*, 15 (7), pp. 16910-16928.
59. Cittadini, M., Sturaro, M., Guglielmi, M., Resmini, A., Tredici, I.G., Anselmi-Tamburini, U., Koshy, P., Sorrell, C.C., Martucci, A. *ZnO nanorods grown on ZnO sol-gel seed films: Characteristics and optical gas-sensing properties* (2015) *Sensors and Actuators, B*, 213, pp. 493-500.
60. Pecharróman, C., Della Gaspera, E., Martucci, A., Escobar-Galindod, R., Mulvaney, P. *Determination of the optical constants of gold nanoparticles from thin-film spectra* (2015) *Journal of Physical Chemistry C*, 119 (17), pp. 9450-9459.
61. Giancaterini, L., Cantalini, C., Cittadini, M., Sturaro, M., Guglielmi, M., Martucci, A., Anselmi-Tamburini, U. *Au and Pt nanoparticles effects on the optical and electrical gas sensing properties of sol-gel-based ZnO thin-film sensors* (2015) *IEEE Sensors Journal*, 15 (2), art. no. 6899573, pp. 1068-1076.
62. Marisa, I., Marin, M.G., Caicci, F., Franceschinis, E., Martucci, A., Matozzo, V. *In vitro exposure of haemocytes of the clam Ruditapes philippinarum to titanium dioxide (TiO2) nanoparticles: Nanoparticle characterisation, effects on phagocytic activity and internalisation of nanoparticles into haemocytes* (2015) *Marine Environmental Research*, 103, pp. 11-17.
63. Chiasera, A., Jasieniak, J., Normani, S., Valligatla, S., Lukowiak, A., Taccheo, S., Rao, D.N., Righini, G.C., Marciniak, M., Martucci, A., Ferrari, M. *Hybrid 1-D dielectric microcavity: Fabrication and spectroscopic assessment of glass-based sub-wavelength structures* (2015) *Ceramics International*, 41 (6), pp. 7429-7433.
64. Carraro, F., Calvillo, L., Cattelan, M., Favaro, M., Righetto, M., Nappini, S., Piš, I., Celorrio, V., Fermin, D.J., Martucci, A., Agnoli, S., Granozzi, G. *Fast One-Pot Synthesis of MoS2/Crumpled Graphene p-n Nanojunctions for Enhanced Photoelectrochemical Hydrogen Production* (2015) *ACS Applied Materials and Interfaces*, 7 (46), pp. 25685-25692.
65. Fabbri, B., Gaiardo, A., Giberti, A., Guidi, V., Malagù, C., Martucci, A., Sturaro, M., Zonta, G., Gherardi, S., Bernardoni, P. *Chemoresistive properties of photo-activated thin and thick ZnO films* (2014) *Sensors and Actuators, B*, 222, pp. 1251-1256.
66. Qadri, M.U., Diaz, A.F.D., Cittadini, M., Martucci, A., Pujol, M.C., Ferré-Borrull, J., Llobet, E., Aguiló, M., Díaz, F. *Effect of Pt nanoparticles on the optical gas sensing properties of WO3 thin films* (2014) *Sensors (Switzerland)*, 14 (7), pp. 11427-11443.
67. Brigo, L., Michieli, N., Artiglia, L., Scian, C., Rizzi, G.A., Granozzi, G., Mattei, G., Martucci, A., Brusatin, G. *Silver nanoprism arrays coupled to functional hybrid films for localized surface plasmon resonance-based detection of aromatic hydrocarbons* (2014) *ACS Applied Materials and Interfaces*, 6 (10), pp. 7773-7781.
68. Chesman, A.S.R., Duffy, N.W., Martucci, A., De Oliveira Tozi, L., Singh, T.B., Jasieniak, J.J. *Solution-processed CdS thin films from a single-source precursor* (2014) *Journal of Materials Chemistry C*, 2 (17), pp. 3247-3253.
69. Cittadini, M., Bersani, M., Perrozzi, F., Ottaviano, L., Wlodarski, W., Martucci, A. *Graphene oxide coupled with gold nanoparticles for localized surface plasmon resonance based gas sensor* (2014) *Carbon*, 69, pp. 452-459.
70. Bersani, M., Conte, L., Martucci, A., Guglielmi, M., Mattei, G., Bello, V., Rosei, R., Centazzo, M. *Transmetalation as an effective strategy for the preparation of bimetallic CoPd and CuPd nanoparticles* (2014) *Nanoscale*, 6 (3), pp. 1560-1566.
71. Qadri, M.U., Diaz, A.F., Cittadini, M., Martucci, A., Pujol, M.C., Ferré-Borrull, J., Llobet, E., Aguiló, M., Díaz, F. *Effect of Pt nanoparticles on the optical gas sensing properties of WO3 thin films* (2014) *Sensors*, 14 (7), pp. 11427-11443.
72. Lanza, R., Bersani, M., Conte, L., Martucci, A., Canu, P., Guglielmi, M., Mattei, G., Bello, V., Centazzo, M., Rosei, R. *Effect of crystalline phase and composition on the catalytic properties of PdSn bimetallic nanoparticles in the PROX reaction* (2014) *Journal of Physical Chemistry C*, 118 (44), pp. 25392-25402.

73. Perotto, G., Antonello, A., Ferraro, D., Mattei, G., Martucci, A. *Patterned TiO<sub>2</sub> nanostructures fabricated with a novel inorganic resist* (2013) *Materials Chemistry and Physics*, 142 (2-3), pp. 712-716.
74. Novak, S., Scarpantonio, L., Novak, J., Dai Prè, M., Martucci, A., Musgraves, J.D., McClenaghan, N.D., Richardson, K. *Incorporation of luminescent CdSe/ZnS core-shell quantum dots and PbS quantum dots into solution-derived chalcogenide glass films* (2013) *Optical Materials Express*, 3 (6), pp. 729-738.
75. Brigo, L., Cittadini, M., Artiglia, L., Rizzi, G.A., Granozzi, G., Guglielmi, M., Martucci, A., Brusatin, G. *Xylene sensing properties of aryl-bridged polysilsesquioxane thin films coupled to gold nanoparticles* (2013) *Journal of Materials Chemistry C*, 1 (27), pp. 4252-4260.
76. Dai Prè, M., Morrow, I., Martin, D.J., Mos, M., Del Negro, A., Padovani, S., Martucci, A. *Preparation and characterization of down shifting ZnS:Mn/PMMA nanocomposites for improving photovoltaic silicon solar cell efficiency* (2013) *Materials Chemistry and Physics*, 139 (2-3), pp. 531-536.
77. Brigo, L., Gazzola, E., Cittadini, M., Zilio, P., Zacco, G., Romanato, F., Martucci, A., Guglielmi, M., Brusatin, G. *Short and long range surface plasmon polariton waveguides for xylene sensing* (2013) *Nanotechnology*, 24 (15), art. no. 155502.
78. Della Gaspera, E., Bersani, M., Cittadini, M., Guglielmi, M., Pagani, D., Noriega, R., Mehra, S., Salleo, A., Martucci, A. *Low-temperature processed Ga-doped ZnO coatings from colloidal inks* (2013) *Journal of the American Chemical Society*, 135 (9), pp. 3439-3448.
79. Della Gaspera, E., Mura, A., Menin, E., Guglielmi, M., Martucci, A. *Reducing gases and VOCs optical sensing using surface plasmon spectroscopy of porous TiO<sub>2</sub>-Au colloidal films* (2013) *Sensors and Actuators, B: Chemical*, 187, pp. 363-370.
80. Della Gaspera E., Bersani M., Mattei G., Nguyen T.-L., Mulvaney P., Martucci A. *Cooperative effect of Au and Pt inside TiO<sub>2</sub> matrix for optical hydrogen detection at room temperature using surface plasmon spectroscopy* (2012) *Nanoscale* 4, 5972-5979.
81. Della Gaspera E., Guglielmi M., Perotto G., Agnoli S., Granozzi G., Post M.L., Martucci A. *CO optical sensing properties of nanocrystalline ZnO-Au films: Effect of doping with transition metal ions* (2012) *Sensors and Actuators B, Chemical*, 161, 675-683.
82. F. Todescato, A.S.R. Chesman, A. Martucci, R. Signorini, J.J. Jasieniak. *Highly Luminescent and Temperature Stable Quantum Dot Thin Films Based on a ZnS Composite* *Chemistry of Materials* (2012) 24, 2117-2126.
83. D. Sammito, G. Zacco, P. Zilio, V. Giorgis, A. Martucci, J. Janusonis, F. Romanato. *Design and fabrication of a light trapping method for photovoltaic devices based on plasmonic gratings* *Microelectronic Engineering* (2012) 98, 440- 443.
84. Antonello, B. Jia, Z. He, D. Buso, G. Perotto, L. Brigo, G. Brusatin, M. Guglielmi, M. Gu, A. Martucci. *Optimized Electroless Silver Coating for Optical and Plasmonic Applications* *Plasmonics* (2012) DOI 10.1007/s11468-012-9352-6.
85. B.I. MacDonald, A. Martucci, S. Rubanov, S.E. Watkins, P. Mulvaney, J.J. Jasieniak. *Layer-by-Layer Assembly of Sintered CdSe<sub>x</sub>Te<sub>1-x</sub> Nanocrystal Solar Cells* *ACS NANO* (2012) 6, 5995-6004.
86. E. Della Gaspera, M. Guglielmi, A. Martucci, L. Giancaterini, C. Cantalini. *Enhanced optical and electrical gas sensing response of sol-gel based NiO-Au and ZnO-Au nanostructured thin films* *Sensors and Actuators B, Chemical* (2012) 164, 54-63.
87. Della Gaspera E; Pujatti M; M. Guglielmi; Post ML; Martucci A. *Structural evolution and hydrogen sulfide sensing properties of NiTiO<sub>3</sub>-TiO<sub>2</sub> sol-gel thin films containing Au nanoparticles* *Materials Science and Engineering B, Solid State Materials for Advanced Technology* (2011) 176, 716-722.
88. Della Gaspera E; Martucci A; Post ML. *ZnO-NiO Thin Films Containing Au Nanoparticles for CO Optical Sensing* *Sensor Letters* (2011) 9, 600-604.
89. Della Gaspera E; Buso D; A. Martucci. *Gold nanoparticles to boost the gas sensing performance of porous sol-gel thin films* *Journal of Sol-Gel Science and Technology* (2011) 60, 366-377.
90. Antonello A; Della Gaspera E; Baldauf J; G. Mattei; Martucci A. *Improved thermal stability of Au nanorods by use of photosensitive layered titanates for gas sensing applications* *Journal of Materials Chemistry* (2011) 21, 13074-13078.
91. Della Gaspera Enrico; Guglielmi Massimo; Giallongo Giuseppe; Agnoli Stefano; G. Granozzi; Quaglio Franco; Martucci Alessandro. *Role of Au Nanoparticles and NiTiO<sub>3</sub> Matrix in H<sub>2</sub>S Sensing and Its Catalytic Oxidation to SO<sub>x</sub>* *Sensor Letters* (2011) 9, 591-594.
92. R. Signorini; Fortunati I; Todescato F; Gardin S; Bozio R; Jasieniak JJ; Martucci A; Della Giustina G; Brusatin G; Guglielmi M *Facile production of up-converted quantum dot lasers* *Nanoscale* (2011) 3, 4109-4113.
93. E. Della Gaspera, M. Karg, J. Baldauf, J. Jasieniak, G. Maggioni, A. Martucci. *Au Nanoparticle Monolayers Covered with Sol-Gel Oxide Thin Films: Optical and Morphological Study* *Langmuir* (2011) 27, 13739-13747.
94. E. Della Gaspera, V. Bello, G. Mattei, A. Martucci. *SiO<sub>2</sub> mesoporous thin films containing Ag and NiO nanoparticles synthesized combining sol-gel and impregnation techniques* *Materials Chemistry and Physics* (2011) 131, 313-319.
95. E. D. Gaspera, A. Antonello, M. Guglielmi, M. L. Post, V. Bello, G. Mattei, F. Romanato, A. Martucci. *Colloidal approach to Au-loaded TiO<sub>2</sub> thin films with optimized optical sensing properties* *Journal of Materials Chemistry* (2011) 21, 4293-4300.
96. Fortunati, R. Signorini, R. Bozio, J.J. Jasieniak, A. Antonello, A. Martucci, G. Della Giustina, G. Brusatin, M. Guglielmi. *CdSe Core-Shell Nanoparticles as Active Materials for Up-Converted Emission* *Journal of Physical Chemistry C*, (2011) 115, 3840-3846.
97. E. Della Gaspera, A. Martucci, M. Yaacob, J. Ou, K. Kalantar-Zadeh, W. Wlodarski. *WO<sub>3</sub>-Au-Pt Nanocrystalline Thin Films as Optical Gas Sensors* *Sensor Letters* (2011) 9, 595-599.
98. C. Yogi, K. Kojima, T. Hashishin, N. Wada, Y. Inada, E. Della Gaspera, M. Bersani, A. Martucci, L. Liu, T.-K. Sham. *Size Effect of Au Nanoparticles on TiO<sub>2</sub> Crystalline Phase of Nanocomposite Thin Films and Their Photocatalytic Properties* *Journal of Physical Chemistry C* (2011) 115, 6554-6560.
99. Rudnitsky, A. Shahmoon, M. Nathan, M. Nazarathy, B. Larom, J. Jasieniak, A. Martucci, L. Businaro, A. Gerardino, Z. Zalevsky. *All-optical integrated micro logic gate* *Microelectronics Journal* (2011) 42, 472-476.

100. E. Della Gaspera, S. Schutzmann, M. Guglielmi, A. Martucci. *Spectroscopic ellipsometry analyses of thin films in different environments: An innovative "reverse side" approach allowing multi angle measurements* Optical Materials (2011) 34, 79-84.
101. Antonello A; Brusatin G; M. Guglielmi; Bello V; Perotto G; Mattei G; Maiwald M; Zollmer V; Chiasera A; Ferrari M; Martucci A. *Novel multifunctional nanocomposites from titanate nanosheets and semiconductor quantum dots* Optical Materials (2011) 33, 1839-846.
102. Antonello A; Brusatin G; M. Guglielmi; Bello V; Mattei G; Zacco G; Martucci A *Nanocomposites of titania and hybrid matrix with high refractive index* Journal of Nanoparticle Research (2011) 13, 1697-1708.
103. Shen LB; Xu QB; Xu JA; Dong JF; Martucci A *Preparation and Characterization of SnO<sub>2</sub> Nanocrystals in Silica-based Glasses Prepared by Sol-Gel Method* Rare Metal Materials and Engineering (2010) 39 Supl.2, 299-301.
104. Antonello A; Guglielmi M; Bello V; G. Mattei; Chiasera A; Ferrari M; Martucci A *Titanate Nanosheets as High Refractive Layer in Vertical Microcavity Incorporating Semiconductor Quantum Dots* Journal of Physical Chemistry C, (2010) 114, 18423-18428.
105. Della Gaspera E.; Buso D; Guglielmi M; Martucci A; Bello V; Mattei G; Post ML; Cantalini C; Agnoli S; Granozzi G; Sadek AZ; Kalantar-Zadeh K; Wlodarski W *Comparison study of conductometric, optical and SAW gas sensors based on porous sol-gel silica films doped with NiO and Au nanocrystals* Sensors and Actuators B, Chemical (2010) 143, 567-573.
106. Cattaruzza E.; Maurizio C.; Visentin L; Trave E; Martucci A; Ali S; Battaglin G; Gonella F *Erbium environment on Er-doped silica and aluminosilicate glass films: An EXAFS study* Nuclear Instruments & Methods in Physics Research. Section B, Beam Interactions with Materials and Atoms (2010) 268, 311-315.
107. Morfa AJ; Beane G; Mashford B; Singh B; Della Gaspera E; Martucci A; Mulvaney P *Fabrication of ZnO Thin Films from Nanocrystal Inks* Journal of Physical Chemistry C, Nanomaterials and Interfaces (2010) 114, 19815-19821.
108. Antonello A; Brusatin G; Guglielmi M.; Martucci A; Bello V; Mattei G; Mazzoldi P; Pellegrini G *Hybrid organic-inorganic ZnS-loaded nanocomposite films for stable optical coatings* Thin Solid Films (2010) 518, 6781-6786.
109. Della Gaspera E.; Guglielmi M; Agnoli S; Granozzi G; Post ML; Bello V; Mattei G; Martucci A *Au Nanoparticles in Nanocrystalline TiO<sub>2</sub>-NiO Films for SPR-Based, Selective H<sub>2</sub>S Gas Sensing* Chemistry of Materials (2010) 22, 3407-3417.
110. D. Buso; Della Giustina G.; G. Brusatin; M. Guglielmi; A. Martucci *Patterning of periodic nanostructure on sol-gel hybrid organic-inorganic film doped with luminescent semiconductor quantum dots* Journal of Nanoscience and Nanotechnology (2009), 9(3), 1858-1864.
111. Patelli A; Vezzu S; Zottarel L; Menin E; Sada C.; Martucci A; Costacurra S *SiO<sub>x</sub>-Based Multilayer Barrier Coatings Produced by a Single PECVD Process* Plasma Processes and Polymers (2009) 6, S665-S670.
112. Buso D; Palmer L; Bello V; Mattei G; Post M; Mulvaney P; Martucci A. *Self-assembled gold nanoparticle monolayers in sol-gel matrices: synthesis and gas sensing applications* Journal of Materials Chemistry (2009) 19, 2051-2057.
113. Buso D; Post M; Cantalini C; Mulvaney P; Martucci A. *Gold Nanoparticle-Doped TiO<sub>2</sub> Semiconductor Thin Films: Gas Sensing Properties* Advanced Functional Materials (2008) 18, 3843-3849.
114. Buso D; Guglielmi M; Martucci A.; Mattei G; Mazzoldi P; Sada C; Post ML *Growth of cookie-like Au/NiO nanoparticles in SiO<sub>2</sub> sol-gel films and their optical gas sensing properties* Crystal Growth & Design (2008) 8, 744-749.
115. Sadek A.Z; Buso D; Martucci A.; Mulvaney P; Wlodarski W; Kalantar-Zadeh K *Titanium Dioxide-Based 64° YX LiNbO<sub>3</sub> Surface Acoustic Wave Hydrogen Gas Sensors* Journal of Sensors (2008) Article ID 254283, doi:10.1155/2008/254283.
116. Manera MG; Spadavecchia J; Buso D; Fernandez CD; Mattei G; Martucci A.; Mulvaney P; Perez-Juste J; Rella R; Vasanelli L; Mazzoldi P *Optical gas sensing of TiO<sub>2</sub> and TiO<sub>2</sub>/Au nanocomposite thin films* Sensors and Actuators B, Chemical (2008) 132, 107-115.
117. Jasieniack J; Sada C; Chiasera A; Ferrari M; Martucci A; Mulvaney P *Sol-Gel Based Vertical Optical Microcavities with Quantum Dot Defect Layers* Advanced Functional Materials (2008) 18, 3772-3779.
118. Jasieniack J; Fortunati I; Gardin S.; Signorini R; Bozio R; Martucci A; Mulvaney P *Highly Efficient Amplified Stimulated Emission from CdSe-CdS-ZnS Quantum Dot Doped Waveguides with Two-Photon Infrared Optical Pumping* Advanced Materials (2008) 20, 69-73.
119. Buso D; Pacifico J; Martucci A; Mulvaney P *Gold-nanoparticle-doped TiO<sub>2</sub> semiconductor thin films: Optical characterization* Advanced Functional Materials (2007) 17, 347-354.
120. G. Mattei; P. Mazzoldi; M. L. Post; Buso D.; M. Guglielmi; A. Martucci *Cookie like Au/NiO nanoparticles with optical gas sensing properties* Advanced Materials (2007) 19, 561-564.
121. Buso D.; G. Busato; M. Guglielmi; A. Martucci; V. Bello; P. Mazzoldi; G. Mattei; M.L. Post *Selective optical detection of H<sub>2</sub> and CO with SiO<sub>2</sub> sol gel films containing NiO and Au nanoparticles* Nanotechnology (2007) 18, 475505-475509.
122. Padilha LA; Fu J; Hagan DJ; Van Stryland, EW; Cesar CL; Barbosa LC; Cruz CHB; Buso D; Martucci A. *Frequency degenerate and nondegenerate two-photon absorption spectra of semiconductor quantum dots* Physical Review B, Condensed Matter and Materials Physics (2007) 75, 075325-1-075325-8.
123. L. K. Teh, V. Furin, A. Martucci, M. Guglielmi, C. C. Wong, F. Romanato *Electrodeposition of CdSe on nanopatterned pillar arrays for photonic and photovoltaic applications* Thin Solid Films (2007) 515, 5787-5791.
124. Jasieniack J; Pacifico J; Signorini R; Chiasera A; Ferrari M; Martucci A.; Mulvaney P *Luminescence and amplified stimulated emission in CdSe-ZnS-nanocrystal-doped TiO<sub>2</sub> and ZrO<sub>2</sub> waveguides* Advanced Functional Materials (2007) 17, 1654-1662.
125. Lam VQ; Turrell S; Martucci A.; Bouazaoui M; Capoen B *Synthesis and optical properties of MPTMS-capped CdS quantum dots embedded in TiO<sub>2</sub> thin films for photonic applications* Journal of Non-Crystalline Solids (2006) 352, 3315-3319.
126. Malavasi L; Tealdi C; Montenero A; Tulliani JM; Moggi P; Guglielmi M; Flor G; Lorenzi A; Martucci A.; Montanaro L; Chiodelli G *Materials development for CO-detection with improved selectivity through catalytic activation* Sensors and Actuators B, Chemical (2006) 118, 121-128.
127. Buso D; Guglielmi M; Martucci A.; Cantalini C; Post ML; Hache A *Porous sol gel silica films doped with crystalline NiO nanoparticles for gas sensing applications* Journal of Sol-Gel Science and Technology (2006) 40, 299-308.

128. Buso D; Guglielmi M; Martucci A.; Mattei G; Mazzoldi P; Sada C; Post ML *Au and NiO nanocrystals doped into porous sol-gel SiO<sub>2</sub> films and the effect on optical CO detection* Nanotechnology (2006) 17, 2429-2433.
129. Innocenzi P; Martucci A.; Armelao L *Low temperature synthesis of Mg<sub>x</sub>Al<sub>2(1-x)</sub>Ti<sub>(1+x)</sub>O<sub>5</sub> films by sol-gel processing* Journal of the European Ceramic Society (2005) 25, 3587-3591.
130. Mattarelli M.; Chiappini A.; Montagna M.; Martucci A.; Ribauda A.; Guglielmi M.; Ferrari M.; Chiasera A. *Optical spectroscopy of TeO<sub>2</sub>-GeO<sub>2</sub> glasses activated with Er<sup>3+</sup> and Tm<sup>3+</sup> ions* Journal of Non-Crystalline Solids (2005) 351, 1759-1763.
131. Portales H.; Mattarelli M.; Montagna M.; Chiasera A.; Ferrari M.; Martucci A.; Mazzoldi P.; Pelli S.; Righini G. *Investigation of the role of silver on spectroscopic features of Er<sup>3+</sup>-activated Ag-exchanged silicate and phosphate glasses* Journal of Non-Crystalline Solids (2005) 351, 1738-1742.
132. Cantalini C.; Post M.; Buso D.; Guglielmi M.; Martucci A. *Gas sensing properties of nanocrystalline NiO and Co<sub>3</sub>O<sub>4</sub> in porous silica sol-gel films* Sensors and Actuators B, Chemical (2005) 108, 184-192.
133. Buso D; Falcaro P; Costacurta S; Guglielmi M; Martucci A; Innocenzi P; Malfatti L; Bello V; Mattei G; Sada C.; Amenistch H; Gerdova I; Hache A *PbS-doped mesostructured silica films with high optical nonlinearity* Chemistry of Materials (2005) 17, 4965-4970.
134. Martucci A; De Nuntis M; Ribauda A; Guglielmi M; Padovani S; Enrichi F; Mattei G; P. Mazzoldi; Sada C; Trave E; Battaglin G; Gonella F; Borsella E; Falconieri M; Patrini M; Fick J *Silver-sensitized erbium-doped ion-exchanged sol-gel waveguides* Applied Physics A, Materials Science & Processing (2005) 80, 557-563.
135. Armellini C; Chiasera A; Dire S; Ferrari M; A. Martucci; Mattarelli M; Montagna M; Moser E; Pelli S; Righini GC; Soraru GD; Zampedi L *Photoluminescence spectroscopy of Er<sup>3+</sup>/Yb<sup>3+</sup> co-activated silica-alumina monolithic xerogels* Journal of Sol-Gel Science and Technology (2004) 32, 267-271.
136. Montagna M.; Chiasera A.; Moser E.; Visintainer F.; Ferrari M.; Zampedi; L.; Goncalves R.R.; Ribeiro S.J.L.; Martucci A.; Guglielmi M.; Ivanda M.; Almeida R.M. *Nucleation and Crystallization of Titania Nanoparticles in Silica Titania Planar Waveguides: a Study by Low Frequency Raman Scattering* Materials Science Forum (2004) 455-456, 520-526.
137. Martucci A; Buso D; De Monte M; Guglielmi M; Cantalini C; Sada C. *Nanostructured sol-gel silica thin films doped with NiO and SnO<sub>2</sub> for gas sensing applications* Journal of Materials Chemistry (2004) 14, 2889-2895.
138. Bullen C; Mulvaney P; Sada C.; Ferrari M; Alessandro CC; Martucci A *Incorporation of a highly luminescent semiconductor quantum dot in ZrO<sub>2</sub>-SiO<sub>2</sub> hybrid sol-gel glass film* Journal of Materials Chemistry (2004) 14, 1112-1116.
139. S. Sartori; A. Martucci; A. Muffato; Guglielmi M. *Sol-gel synthesis of Na<sup>+</sup> beta-Al<sub>2</sub>O<sub>3</sub> powders* Journal of the European Ceramic Society (2004) 24, 911-914.
140. Martucci A.; D. Buso; M. Guglielmi; L. Zbronicc; N. Koishizaki; M. Post *Optical gas sensing properties of silica film doped with cobalt oxide nanocrystals* Journal of Sol-Gel Science and Technology (2004) 32, 243-246.
141. L. Zbronicc; Martucci A.; T. Sasaki; N. Koshizaki *Optical CO gas sensing using nanostructured NiO and NiO/SiO<sub>2</sub> nanocomposites fabricated by PLD and sol-gel methods* Applied Physics A, Materials Science & Processing (2004) 79, 1303-1305.
142. Martucci A.; Fick J.; Le Blanc S.; Lo Cascio M.; Hache A. *Optical properties of PbS quantum dot doped sol-gel films* Journal of Non-Crystalline Solids (2004) 345-346, 639-642.
143. Pivin JC; Colombo P; Martucci A; Sorar, GD; Pippel E; Sendova-Vassileva M. *Ion Beam Induced Conversion of Si-Based Polymers and Gels Layers into Ceramics Coatings* Journal of Sol-Gel Science and Technology (2003) 26, 251-255.
144. A. Martucci; N. Bassiri; Guglielmi M.; L. Armelao; S. Gross; J.C. Pivin. *NiO-SiO<sub>2</sub> sol-gel nanocomposite films for optical gas sensor* Journal of Sol-Gel Science and Technology (2003) 26, 993-996.
145. A. Martucci; M. Pasquale; M. Guglielmi; M. Post; J.C. Pivin. *Nanostructured SiO<sub>2</sub>-NiO sol-gel films with enhanced optical CO gas sensitivity* Journal of the American Ceramic Society (2003) 86, 1638-1640.
146. M. Montagna; E. Moser; F. Visintainer; M. Ferrari; L. Zampedi; A. Martucci; Guglielmi M.; M. Ivanda. *Nucleation of titania nanocrystals in silica titania waveguides* Journal of Sol-Gel Science and Technology (2003) 26, 241-244.
147. A. Hache; S. Le Blanc; M. Lo Cascio; Martucci A. *Optical switching spectroscopy of PbS quantum dots with dual-wavelength pump-probe* Physica E, Low-Dimensional Systems & Nanostructures (2003) 17, 104-106.
148. A. Martucci; S. Sartori; A. Muffato; L. Armelao; E. Di Bartolomeo; E. Traversa; M. Guglielmi *Sol-gel synthesis of lambda-Na<sub>2</sub>O-xAl<sub>2</sub>O<sub>3</sub> films* Journal of the American Ceramic Society (2003) 86, 1965-1968.
149. Martucci A.; A. Chiasera; M. Montagna; M. Ferrari. *Erbium-doped GeO<sub>2</sub>-TiO<sub>2</sub> sol-gel waveguides* Journal of Non-Crystalline Solids (2003) 322, 295-299.
150. Capoen B.; Martucci A.; S. Turrell; M. Bouazaoui. *Effects of the sol-gel solution host on the chemical and optical properties of PbS quantum dots* Journal of Molecular Structure (2003) 651-653, 467-473.
151. Martucci A; Sartori S.; Guglielmi M; Di Vona ML; Licocchia S; Traversa E *NMR and XRD study of the influence of the P precursor in sol-gel synthesis of NASICON powders and films* Journal of the European Ceramic Society (2002) 22, 1995-2000.
152. Pivin JC; Sendova-Vassileva M; Nikolaeva M; Dimova-Malinovska D; Martucci A. *Optical extinction resonance of Au and Ag clusters formed by ion irradiation in SiO<sub>2</sub> and Al<sub>2</sub>O<sub>3</sub>* Applied Physics A, Materials Science & Processing (2002) 75, 401-410.
153. J.C. Pivin; M.A. Garcia; H. Hofmeister; A. Martucci; M. Sendova-Vassileva; M. Nikolaeva; O. Kaitasov; J. Llopis. *Optical properties of silver clusters formed by ion irradiation* European Physical Journal D, Atomic, Molecular and Optical Physics (2002) 20, 251-260.
154. L. Armelao; Martucci A.; P. Innocenzi. *Study of beta-Al<sub>2</sub>TiO<sub>5</sub> thin films by XPS* Surface Science Spectra (2001) 8, 8-13.
155. Forastiere M.A.; M. Guglielmi; Martucci A.; Ahmad M.M.; McCarthy O.; Pelli S.; Righini G.C.; Vannucci A.; Yeatman E. *Strip-loaded sol-gel waveguides for optical amplifiers* Fiber and Integrated Optics (2001) 20, 29-43.
156. P. Colombo; A. Martucci; O. Fogato; P. Villoresi. *Silicon carbide films by laser pyrolysis of polycarbosilane* Journal of the American Ceramic Society (2001) 84, 224-226.

157. Innocenzi P.; Martucci A.; Guglielmi M.; Bearzotti A.; Traversa E.; Pivin J.C. *Mesoporous silica thin films for alcohol sensors* Journal of the European Ceramic Society (2001) 21, 1985-1988.
158. P. Innocenzi; A. Martucci; M. Guglielmi; A. Bearzotti; E. Traversa *Electrical and structural characterisation of mesoporous silica thin films as humidity sensors* Sensors and Actuators B, Chemical (2001) 76, 299-303.
159. L. Armelao; D. Barreca; S. Gross; A. Martucci; M. Tieto; Tondello E. *Cobalt oxide-based films: sol-gel synthesis and characterization* Journal of Non-Crystalline Solids (2001) 293-295, 477-482.
160. Pivin JC; Sendova-Vassileva M; Colombo P; Martucci A. *Photoluminescence of composite ceramics derived from polysiloxanes and polycarbosilanes by ion irradiation* Materials Science and Engineering B, Solid State Materials for Advanced Technology (2000). B69-70, 574-577.
161. Brusatin G.; Guglielmi M.; Innocenzi P.; Martucci A.; Scarinci G. *Materials for photonic applications from sol-gel* Journal of Electroceramics (2000) 4, 151-165.
162. S. Licoccia; M.L. Di Vona; E. Traversa; P. Innocenzi; A. Martucci. *Low temperature sol-gel preparation of beta-Al<sub>2</sub>TiO<sub>5</sub> thin films: spectroscopic analysis of the precursors* Journal of Sol-Gel Science and Technology (2000) 19, 577-580.
163. L. Armelao; M. Fabrizio; S. Gross; A. Martucci; E. Tondello. *Molecularly interconnected SiO<sub>2</sub>-GeO<sub>2</sub> thin films: sol-gel synthesis and characterization* Journal of Materials Chemistry (2000) 10, 1147-1150.
164. Fick J.; Martucci A.; Guglielmi M.; Schell. J. *Nonlinear Optical Properties of Semiconductor-Doped Sol-Gel Waveguides* Fiber and Integrated Optics (2000) 19, 43-56.
165. Fick J.; Martucci A.; Guglielmi M. *Fabrication of erbium-doped channel waveguides by a combination of ion exchange and sol-gel techniques* Journal of Sol-Gel Science and Technology (2000) 19, 573-576.
166. Yeatman E.M.; Ahmad M.M.; McCarthy O.; Martucci A.; Guglielmi M. *Sol-gel fabrication of rare earth doped photonic components* Journal of Sol-Gel Science and Technology (2000) 19, 231-236.
167. J.C. Pivin; D. Dimovamalinovska; M. Sendova-Vassileva; M. Nikolaeva; A. Martucci. *Optical applications of ion beam irradiation* Vacuum (2000) 58, 387-395.
168. Innocenzi P.; Martucci A.; Guglielmi M.; Armelao L.; Licoccia S.; Divona M.L.; Traversa E. *Sol-Gel Synthesis of beta-Al<sub>2</sub>TiO<sub>5</sub> Thin Films at low Temperature* Chemistry of Materials (2000) 12, 517-524.
169. Martucci A; P. Innocenzi; E. Traversa. *Crystallisation of Al<sub>2</sub>O<sub>3</sub>-TiO<sub>2</sub> sol-gel systems* Journal of the Ceramic Society of Japan (1999) 107, 891-894.
170. Martucci A.; Fick J.; Schell J.; Battaglin G.; M. Guglielmi. *Microstructural and nonlinear optical properties of silica-titania sol-gel film doped with PbS quantum dots* Journal of Applied Physics (1999) 86, 79-87.
171. E. Traversa; M. Baroncini; E. Di Bartolomeo; G. Gusmano; P. Innocenzi; A. Martucci; A. Bearzotti *Electrical humidity response of sol-gel processed undoped and alkali-doped TiO<sub>2</sub>-Al<sub>2</sub>O<sub>3</sub> thin films* Journal of the European Ceramic Society (1999) 19, 753-758.
172. Martucci A; Innocenzi P; Fick J; Mackenzie JD. *Zirconia-ormosil films doped with PbS quantum dots* Journal of Non-Crystalline Solids (1999) 244, 55-62.
173. P. Innocenzi; A. Martucci; M. Guglielmi; L. Armelao; S. Pelli; G.C. Righini; G. Battaglin. *Optical and surface properties of inorganic and hybrid organic-inorganic silica-titania sol-gel planar waveguides* Journal of Non-Crystalline Solids (1999) 259, 182-190.
174. Martucci A.; M. Guglielmi; Urabe K. *Influence of the host matrix on the microstructure of sol-gel films doped with CdS and PbS Q-Dots* Journal of Sol-Gel Science and Technology (1998) 11, 105-116.
175. Martucci A.; Brusatin G; Guglielmi M; Strohhofer C; Fick J; Pelli S; Righini. *GC Fabrication and Characterization of Sol-Gel GeO<sub>2</sub>-SiO<sub>2</sub> Erbium-Doped Planar Waveguides* Journal of Sol-Gel Science and Technology (1998) 13, 535-539.
176. Strohhofer C; Capecchi S; Fick J; Martucci A; Brusatin G; Guglielmi M. *Active optical properties of erbium-doped GeO<sub>2</sub>-based sol-gel planar waveguides* Thin Solid Films (1998) 326, 99-105.
177. Guglielmi M; A. Martucci; Almeida RM; Vasconcelos HC; Yeatman EM; Dawnay EJC; Fardad MA. *Spinning deposition of silica and silica-titania optical coatings: A round robin test* Journal of Materials Research (1998) 13, 731-738.
178. M. Guglielmi; Martucci A.; Fick J.; Vitrant G. *Preparation and characterization of thin films doped with Hg<sub>x</sub>Cd<sub>1-x</sub>S and Pb<sub>x</sub>Cd<sub>1-x</sub>S quantum dots* Journal of Sol-Gel Science and Technology (1998) 11, 229-240.
179. Fick J.; Schell J.; Levy R.; Martucci A.; Guglielmi M. *Resonant non linear optical properties of PbS nanocrystals under nano- and pico-second pulsed laser excitation* Pure and Applied Optics (1997) 6, 527-535.
180. M. Guglielmi; A. Martucci; E. Memegazzo; G.C. Righini; S. Pelli; J. Fick; G. Vitrant *Control of semiconductor particle size in sol-gel thin films* Journal of Sol-Gel Science and Technology (1997) 8, 1017-1021.
181. Brusatin G; Guglielmi M; Martucci A. *GeO<sub>2</sub>-based sol-gel films* Journal of the American Ceramic Society (1997) 80, 3139-3144.
182. G. Brusatin; M. Guglielmi; P. Innocenzi; A. Martucci; S. Pelli; G.C. Righini; C. Battaglin. *Microstructural and optical properties of sol-gel silica-titania waveguides* Journal of Non-Crystalline Solids (1997) 220, 202-209.
183. Innocenzi P; Brusatin G; Martucci A.; Urabe K. *Microstructural characterization of gold-doped silica-titania sol-gel films* Thin Solid Films (1996) 279, 23-28.
184. GC Righini, A Verciani, S Pelli, M Guglielmi, A Martucci, J Fick, G Vitrant. *Sol -gel glasses for nonlinear optics* Pure and Applied Optics (1996) 5, 655-666.
185. Pelli S; Righini GC; Scaglione A; Guglielmi M; Martucci A. *Direct laser writing of ridge optical waveguides in silica-titania glass sol-gel films* Optical Materials (1996) 5, 119-126.

#### Refereed Conference Publications

186. Pelizzo, M.G., Corso, A.J., Tessarolo, E., Martucci, A., Donazzan, A., Bottger, R., Hubner, R., Napolitani, E. Qualification tests of optical coatings in space environment (2017) 4th IEEE International Workshop on Metrology for AeroSpace, MetroAeroSpace 2017 - Proceedings, art. no. 7999570, pp. 228-233.
187. Chiasera, A., Scotognella, F., Dorosz, D., Galzerano, G., Lukowiak, A., Ristic, D., Speranza, G., Vasilchenko, I., Vaccari, A., Valligatla, S., Varas, S., Zur, L., Ivanda, M., Martucci, A., Righini, G.C., Taccheo, S., Ramponi, R., Ferrari, M. Glass based structures fabricated by rf-sputtering (2017) 2017 40th International Convention on Information and Communication Technology, Electronics and Microelectronics, MIPRO 2017 - Proceedings, art. no. 7973384, pp. 21-26.
188. Corso, A.J., Angiola, M., Tessarolo, E., Guidolin, M., Donazzan, A., Martucci, A., Pelizzo, M.G. Continuous palladium-based thin films for hydrogen detection (2017) Proceedings of SPIE - The International Society for Optical Engineering, 10231, art. no. 102312B, .
189. Pelizzo, M.G., Corso, A.J., Bazzan, M., Zuppella, P., Garoli, D., Martucci, A. In situ study of structural and optical properties of Pd thin film during hydrogen exposure (2016) Proceedings of SPIE 9929, art. no. 99291C.
190. Pelizzo, M.G., Corso, A.J., Tessarolo, E., Zuppella, P., Böttger, R., Huebner, R., Della Corte, V., Palumbo, P., Taglioni, G., Preti, G., Foggetta, L., Valente, P., Rancoita, P., Martucci, A., Napolitani, E. Optical components in harsh space environment (2016) Proceedings of SPIE 9981, art. no. 99810G.
191. Angiola, M., Alsaif, M.M.Y.A., Kalantar-Zadeh, K., Wisitorsaat, A., Wlodarski, W., Martucci, A. *Optical hydrogen sensing based on hybrid 2D MoO<sub>3</sub>/Au nanoparticles* (2015) Procedia Engineering, 120, pp. 1141-1144.
192. Czerwosz, E., Kowalska, E., Kozłowski, M., Radońska, J., Wronka, H., Angiola, M., Martucci, A., Włodarski, W. *CNT-Ni-Pd nanocomposite films for optical gas sensor* (2014) Procedia Engineering, 87, pp. 963-966.
193. Fabbri, B., Gaiardo, A., Giberti, A., Guidi, V., Malagù, C., Martucci, A., Sturaro, M. *Electrical, optical and sensing properties of photo-activated ZnO thin films* (2014) Procedia Engineering, 87, pp. 148-151.
194. J.J. Jasieniak, A Martucci *Sol-gel thin films for photonic application* Proceedings of SPIE: Silicon Photonics and Photonic Integrated Circuits III (2012) 84311C-84311C-9, 15-19 April 2012 Brussels, Belgium.
195. A Antonello, M Guglielmi, V Bello, G Mattei, A Martucci *Synthesis and tailoring of CdSe core@shell heterostructures for optical applications*. Proceedings of SPIE: Integrated Optics: Devices, Materials, and Technologies XV (2011) 794107-1-794107 22-27 January 2011 San Francisco.
196. Martucci A *Sol-gel film containing metal and semiconductor nanoparticles for gas sensing*. Technical Digest 13<sup>th</sup> International Meeting on Chemical Sensors (2010) Perth 50- 50 11-14 July 2010 Perth – Australia.
197. Della Gaspera E; Martucci A; Yaacob M; Ou J; Kalantar-Zadeh K; Wlowdarski W. *WO<sub>3</sub>-Au nanocomposite thin films as optical gas sensors*. Technical Digest 13<sup>th</sup> International Meeting on Chemical Sensors (2010) Perth 287- 11-14 July 2010 Perth – Australia.
198. F. Todescato; I. Fortunati; S.Gardin; R.Signorini; R. Bozio; J.J. Jasieniak; A. Martucci; G. Della Giustina; G. Brusatin N; Guglielmi M. *One- and two-photon pumped soft lithographed DFB laser systems based on semiconductor core-shell quantum dots*. Proc. of SPIE: Nonlinear Frequency Generation and Conversion: Materials, Devices, and Applications IX (2010) 75821C-1- 5821C-9 San Francisco.
199. Della Gaspera E; Martucci A; Post M. *TiO<sub>2</sub>-NiO nanocomposite thin films with Au nanoparticles for optical H<sub>2</sub>S detection*. Technical Digest 13<sup>th</sup> International Meeting on Chemical Sensors (2010) Perth 88- 11-14 July 2010 Perth – Australia.
200. Dai Pré M.; Martucci A; Leoni M. *Synthesis and characterization of ZnS:Mn nanoparticles*. Proc. of SPIE: Photonics for Solar Energy Systems III (2010) 77250U-1- 77250U-8 7725 12-15 April 2010 Brussels, Belgium.
201. Della Gaspera E; Buso, D; Post M.L; Martucci A. *TiO<sub>2</sub> sol-gel thin films containing Au and Pt nanoparticles with controlled morphology: Optical study and gas sensing properties*. Proc. SPIE: Optical Sensing and Detection (2010) 77260I-1-77260I-8 12-15 APRIL 2010 Brussels, Belgium.
202. Buso D; Martucci A; Post M; Cantalini C. *Optical and conductometric gas sensing properties of sol-gel TiO<sub>2</sub> films doped with Au nanoparticles*. Technical Digest 12<sup>th</sup> International Meeting on Chemical Sensors (2008) 13-16 July 2008 Columbus, Ohio USA.
203. Zuccon S; Pelizzo M.G; Nicolosi P; Buso D; Martucci A. *Different sensing layers for SPR sensing of organic vapours*. Proc SPIE: Nanostructured Thin Films (2008) 7041-33- 10-14 August 2008 San Diego, USA.
204. Buso D; Guglielmi M; Martucci A; Post M.L; Mattei G; Mazzoldi P; Cantalini C; Sadek A.Z; Wlodarski W. *Porous sol-gel silica film doped with NiO and Au nanocrystals as platform for different kind of gas sensor transducers*. Technical Digest 12<sup>th</sup> International Meeting on Chemical Sensors (2008) 13-16 July 2008 Columbus, Ohio USA.
205. Casara, F. Carollo, P. Facchin, M. Santagiustina, C.G. Someda, G. Brusatin, A. Martucci, K. Oh. *Holey Fibers Filling with Liquids and Sol-Gel Materials*. 9<sup>th</sup> International Conference on Transparent Optical Networks (2007) 204- 207 2 1-5 July 2007, Rome, Italy.
206. Lazaro A. Padilha, Jie Fu, G. Nootz, David J. Hagan, Eric W. Van Stryland, D. Buso, A. Martucci, Carlos L. Cesar, Luiz C. Barbosa, Carlos H. B. Cruz. *Two-photon absorption in direct bandgap semiconductors quantum dots*. Proceedings of SPIE: Nanoengineering: Fabrication, Properties, Optics, and Devices III (2006) 63270M-1- 63270M-9.
207. C. De Julian Fernandez; M.G. Manera; J. Spadavecchia; D. Buso; G. Pellegrini; G. Mattei; A. Martucci; R. Rella; L. Vasanelli; M. Guglielmi; P. Mazzoldi. *Gold/titania nanocomposites thin films for optical gas sensing devices*. Proc SPIE 583 (2005) 703-710.
208. Mazzoldi, P; Padovani S; Enrichi F; Mattei G; Sada C; Trave E; Guglielmi M; Martucci A; Battaglin G; Cattaruzza E; Gonella F; Maurizio C. *Sensitizing effects in Ag-Er co-doped glasses for optical amplification* Proc. SPIE: Integrated optics and photonic (2004) 545, 311- 326.
209. P. Di Benedetto; A. Martucci; J. Fick *Photoluminescence properties of organic-inorganic sol-gel films doped with semiconductor quantum dots*. Proc. SPIE (2002) 4808, 115- 122.

210. A. Martucci; M. Guglielmi; J. Fick; M. Post. *Sol-gel films doped with semiconductor nanocrystals for optical applications*. Proc. SPIE: Sol-Gel Optics VI (2002) 4804, 92- 99.
211. A. Martucci; M. Guglielmi; J. Fick; S. Pelli; M.A. Forastiere; G.C. Righini; C. Battaglin. *Germania sol-gel waveguides for optical amplifiers*. Proc. SPIE (2000) 3943, 2- 9.
212. J. Fick; J. Schell; A. Martucci; M. Guglielmi. *Nonlinear characterization of PbS nanocrystals embedded in sol-gel planar waveguides*. Proc. SPIE: Integrated Optics Devices III (1999) 3620, 198- 205.
213. M.A. Forastiere; M. Guglielmi; A. Martucci, M.M. Ahmad, O. McCarthy, S. Pelli, G.C. Righini, A. Vannucci, E.M. Yeatman. *Strip-loaded sol-gel waveguides for optical amplifiers*. Proc. SPIE: Rare-Earth-Doped Materials and Devices III (1999) 3622, 129- 137.
214. G.C. Righini; M.A. Forastiere; M. Guglielmi; A. Martucci. *Rare-earth-doped sol-gel waveguides: a review*. Proceedings of SPIE: Rare-Earth-Doped Devices II (1998) 3280, 57- 66.
215. Pelli S; Righini GC; Scaglione A; Ascoli C; Frediani C; Martucci A; Guglielmi M. *Characterization of laser-written sol-gel strip waveguides*. Proceedings of SPIE (1994) 2288, 573-579.
216. Guglielmi M; Martucci A; Righini GC; Pelli S. *CdS- and PbS-doped silica-titania optical waveguides*. Proceedings of SPIE (1994) 2288, 174-182.
217. Pelli S; Righini GC; Verciani A; Guglielmi M; Martucci A; Scaglione A. *Laser writing of optical waveguides in sol-gel films*. Proceedings of SPIE (1994) 2213, 58- 63.

#### Patents

218. G. Urso, D. Martelli, C. Carretti, P. Innocenzi, M. Guglielmi, A. Martucci. *Nitrogenated evaporable getter devices with high fritting resistance and process for their production*. US Patent, US6139768 (2000).
219. G. Urso, D. Martelli, C. Carretti, P. Innocenzi, M. Guglielmi, A. Martucci. *NITRIDING EVAPORATION TYPE GETTER DEVICE WITH HIGH FRITTING RESISTANCE AND MANUFACTURE OF GETTER DEVICE*. Japanese Patent, JPH11306956 (1999).
220. G. Urso, D. Martelli, C. Carretti, P. Innocenzi, M. Guglielmi, A. Martucci. *Nitrogenated evaporable getter devices with high fritting resistance and process for their production*. European Patent EP929092 (1999).
221. G. Urso, D. Martelli, C. Carretti, P. Innocenzi, M. Guglielmi, A. Martucci. *Dispositivi Getter evaporabili azotati ad elevata resistenza al frittaggio e processo per la loro produzione*. Italian Patent M198A 000032 (1998).