

# Giovanni Mattei

## List of Publications by Year in descending order

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285  
papers

6,161  
citations

76031

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295  
all docs

295  
docs citations

295  
times ranked

6472  
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization of Chirality in Diffractive Metasurfaces by Photothermal Deflection Technique. Applied Sciences (Switzerland), 2022, 12, 1109.	1.3	4
2	High Magnetic Field Magneto-optics on Plasmonic Silica-Embedded Silver Nanoparticles. Journal of Physical Chemistry C, 2022, 126, 1939-1945.	1.5	10
3	$\frac{O}{3}$ Anopetals layers for pho	3.1	6
4	Selective Control of Eu <sup>3+</sup> Radiative Emission by Hyperbolic Metamaterials. Materials, 2022, 15, 4923.	1.3	0
5	Lanthanide Ions Sensitization by Small Noble Metal Nanoclusters. ACS Photonics, 2021, 8, 1364-1376.	3.2	6
6	Photo-deflection technique for characterization of chirality in diffractive metasurfaces. , 2021, , .		0
7	Rich Broadband Chiral Behavior in Low-cost Plasmonic Nanostructures. , 2021, , .		0
8	Rich Near-Infrared Chiral Behavior in Diffractive Metasurfaces. Physical Review Applied, 2021, 16, .	1.5	16
9	Double-Langmuir model for optimized nanohole array-based plasmonic biosensors. Applied Surface Science, 2021, 556, 149802.	3.1	2
10	Diffracted Beams from Metasurfaces: High Chiral Detectivity by Photothermal Deflection Technique. Advanced Optical Materials, 2021, 9, 2100670.	3.6	16
11	Cr <sup>3+</sup> substituted aluminum cobalt ferrite nanoparticles: influence of cation distribution on structural and magnetic properties. Physica Scripta, 2021, 96, 125849.	1.2	6
12	Hybrid Sol-Gel Surface-Enhanced Raman Sensor for Xylene Detection in Solution. Sensors, 2021, 21, 7912.	2.1	2
13	Tunable Third-Order Nonlinear Optical Response in $\frac{1}{\mu}$ -Near-Zero Multilayer Metamaterials. Physical Review Applied, 2021, 16, .	1.5	7
14	Correlation between <i>in situ</i> structural and optical characterization of the semiconductor-to-metal phase transition of VO <sub>2</sub> thin films on sapphire. Nanoscale, 2020, 12, 851-863.	2.8	40
15	Broadband tunable nonlinear optical response in plasmonic metamaterials -INVITED. EPJ Web of Conferences, 2020, 238, 11001.	0.1	1
16	All-Dielectric Silicon Nanoslots for $Er^3+$ Photoluminescence Enhancement. Physical Review Applied, 2020, 14, .	1.5	17
17	Optimal geometry for plasmonic sensing with non-interacting Au nanodisk arrays. Nanoscale Advances, 2020, 2, 3304-3315.	2.2	8
18	Diffractive dipolar coupling in non-Bravais plasmonic lattices. Nanoscale Advances, 2020, 2, 1261-1268.	2.2	14

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19	Chiral effects in low-cost plasmonic arrays of elliptic nanoholes. Optical and Quantum Electronics, 2020, 52, 1.	1.5	17
20	Circular Dichroism in Low-Cost Plasmonics: 2D Arrays of Nanoholes in Silver. Applied Sciences (Switzerland), 2020, 10, 1316.	1.3	21
21	Amorphous intermixing of noble and magnetic metals in thin film-based nanostructures. Applied Surface Science, 2020, 513, 145779.	3.1	1
22	Structural modification of Au-Co thin films induced by annealing in oxidizing atmosphere. Surface and Coatings Technology, 2020, 385, 125309.	2.2	2
23	Asymmetric hole array: tuning the optical circular dichroism for chiral molecules sensing. , 2020, , .		1
24	Ordered arrays of metallic nanoprisms for photonic applications. , 2020, , 111-138.		0
25	Polarization dependence of second harmonic generation from plasmonic nanoprism arrays. Scientific Reports, 2019, 9, 11514.	1.6	11
26	Hybrid Metal-Polystyrene Metasurfaces: Circular Dichroism Evidenced by Means of Photo-Acoustic Technique. , 2019, , .		0
27	Nanopatterned films of Co <sub>3</sub> O <sub>4</sub> nanopetals. Thin Solid Films, 2019, 691, 137628.	0.8	0
28	Tuning ZnO nanorods photoluminescence through atmospheric plasma treatments. APL Materials, 2019, 7, .	2.2	20
29	Tuning the linear and nonlinear optical properties of ordered plasmonic nanoarrays by morphological control with thermal annealing. Applied Surface Science, 2019, 491, 67-74.	3.1	7
30	Buffer-layer-assisted morphological manipulation of metal nanoparticle arrays by laser irradiation. Applied Surface Science, 2019, 487, 726-733.	3.1	2
31	Co <sub>3</sub> O <sub>4</sub> Nanopetals on Si as Photoanodes for the Oxidation of Organics. Surfaces, 2019, 2, 41-53.	1.0	10
32	Photo-acoustic detection of chirality in metal-polystyrene metasurfaces. Applied Physics Letters, 2019, 114, 053101.	1.5	31
33	VO <sub>2</sub> Phase Change Control of Au Nanorod Emission Enhancement of Magnetic Dipolar Emitters. , 2019, , .		0
34	Bidimensional ordered plasmonic nanoarrays for nonlinear optics, nanophotonics and biosensing applications. Materials Science in Semiconductor Processing, 2019, 92, 2-9.	1.9	26
35	Control of Au nanoantenna emission enhancement of magnetic dipolar emitters by means of VO <sub>2</sub> phase change layers. Optics Express, 2019, 27, 24260.	1.7	12
36	Emission Rate Modification and Quantum Efficiency Enhancement of Er <sup>3+</sup> Emitters by Near-Field Coupling with Nanohole Arrays. ACS Photonics, 2018, 5, 2189-2199.	3.2	23

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37	Control of silver clustering for broadband Er <sup>3+</sup> luminescence sensitization in Er and Ag co-implanted silica. <i>Journal of Luminescence</i> , 2018, 197, 104-111.	1.5	27
38	Ultra-fast dynamics in the nonlinear optical response of silver nanoprism ordered arrays. <i>Nanoscale</i> , 2018, 10, 5182-5190.	2.8	24
39	Two-step growth mechanism of supported Co <sub>3</sub> O <sub>4</sub> -based sea-urchin like hierarchical nanostructures. <i>Applied Surface Science</i> , 2018, 439, 876-882.	3.1	8
40	Emission Efficiency Enhancement of Er <sup>3+</sup> Ions in Silica by Near-Field Coupling With Plasmonic and Pre-Plasmonic Nanostructures. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1700437.	0.8	8
41	Local structure and X-ray magnetic circular dichroism of Au in Au-Co nanoalloys. <i>Applied Surface Science</i> , 2018, 433, 596-601.	3.1	8
42	Rare-earth fluorescence thermometry of laser-induced plasmon heating in silver nanoparticles arrays. <i>Scientific Reports</i> , 2018, 8, 13811.	1.6	8
43	Nanoroughness, Surface Chemistry, and Drug Delivery Control by Atmospheric Plasma Jet on Implantable Devices. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 39512-39523.	4.0	41
44	Interplay between magnetic anisotropies in CoAu and Co films and antidot arrays: effects on the spin configuration and hysteretic behavior. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 16835-16846.	1.3	2
45	Thermal scan of metal based metasurface and evidence of circular dichroism and optothermal anisotropy. , 2018, , .		0
46	Dichroic nonlinear absorption response of silver nanoprism arrays. <i>RSC Advances</i> , 2017, 7, 17741-17747.	1.7	21
47	Gold-silver alloy semi-nanoshell arrays for label-free plasmonic biosensors. <i>Nanoscale</i> , 2017, 9, 10117-10125.	2.8	28
48	Oxidation effects on the SERS response of silver nanoprism arrays. <i>RSC Advances</i> , 2017, 7, 369-378.	1.7	55
49	Spectral dependence of nonlinear absorption in ordered silver metallic nanoprism arrays. <i>Scientific Reports</i> , 2017, 7, 5307.	1.6	22
50	Functional magneto-plasmonic biosensors transducers: Modelling and nanoscale analysis. <i>Sensors and Actuators B: Chemical</i> , 2017, 239, 100-112.	4.0	25
51	Magnetic Hysteresis in Nanocomposite Films Consisting of a Ferromagnetic AuCo Alloy and Ultrafine Co Particles. <i>Materials</i> , 2017, 10, 717.	1.3	12
52	Thermal layer-by-layer preparation of oriented films of a Cu( <sub>i</sub> ) ionic inorganic-organic hybrid material showing semiconducting and SHG properties. <i>Journal of Materials Chemistry C</i> , 2016, 4, 7077-7082.	2.7	2
53	Amplified sensitization of Er <sup>3+</sup> luminescence in silica by Au <sub>N</sub> quantum clusters upon annealing in a reducing atmosphere. <i>RSC Advances</i> , 2016, 6, 99376-99384.	1.7	10
54	Wavelength- and polarization-dependent nonlinear optical properties of plasmonic nanoprism arrays. <i>Proceedings of SPIE</i> , 2016, , .	0.8	0

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55	Magnetoplasmonics. , 2016, , 1879-1903.		1
56	Strengths of the resonances at 436, 479, 639, 661, and 1279 keV in the $\text{Ne}^{22+}$ $\text{Na}^{23+}$ Physical Review C, 2015, 92, .	1.1	27
57	Correlation between room temperature luminescence and energy-transfer in Er <sup>3+</sup> Au co-implanted silica. Nuclear Instruments & Methods in Physics Research B, 2015, 362, 68-71.	0.6	0
58	Enhanced optical functionalities in silica by doping with Au-based nanostructures. Physica Status Solidi (B): Basic Research, 2015, 252, 119-123.	0.7	4
59	Ion implantation for manufacturing bent and periodically bent crystals. Applied Physics Letters, 2015, 107, .	1.5	10
60	Nonlinear absorption tuning by composition control in bimetallic plasmonic nanoprism arrays. Nanoscale, 2015, 7, 12411-12418.	2.8	31
61	Multi-rate sampled-data stabilization of a class of nonlinear systems. , 2015, , .		5
62	Optimal geometric parameters of ordered arrays of nanoprisms for enhanced sensitivity in localized plasmon based sensors. Biosensors and Bioelectronics, 2015, 65, 346-353.	5.3	30
63	Interatomic Coupling of Au Molecular Clusters and Er <sup>3+</sup> Ions in Silica. ACS Photonics, 2015, 2, 96-104.	3.2	19
64	Au <sup>+</sup> Ag nanoalloy molecule-like clusters for enhanced quantum efficiency emission of Er <sup>3+</sup> ions in silica. Physical Chemistry Chemical Physics, 2015, 17, 28262-28269.	1.3	28
65	Manufacturing of advanced bent crystals for Laue Optics for Gamma ObservationS (LOGOS). Nuclear Instruments & Methods in Physics Research B, 2015, 355, 297-300.	0.6	6
66	Gold-based nucleation in implanted silica studied by x-ray absorption spectroscopy. Ceramics International, 2015, 41, 8660-8664.	2.3	2
67	Controlling the Emission Rate of Er <sup>3+</sup> Ions by Dielectric Coupling with Thin Films. Journal of Physical Chemistry C, 2015, 119, 6728-6736.	1.5	10
68	Core-shell-like Au sub-nanometer clusters in Er-implanted silica. Nanoscale, 2015, 7, 8968-8977.	2.8	11
69	Highly photo-catalytically active hierarchical 3D porous/urchin nanostructured Co <sub>3</sub> O <sub>4</sub> coating synthesized by Pulsed Laser Deposition. Applied Catalysis B: Environmental, 2015, 166-167, 475-484.	10.8	75
70	Effect of ultras-small Au <sup>+</sup> Ag aggregates formed by ion implantation in Er-implanted silica on the 1.54 $\mu\text{m}$ Er <sup>3+</sup> luminescence. Nuclear Instruments & Methods in Physics Research B, 2014, 326, 11-14.	0.6	3
71	Transmetalation as an effective strategy for the preparation of bimetallic CoPd and CuPd nanoparticles. Nanoscale, 2014, 6, 1560-1566.	2.8	8
72	Effect of Crystalline Phase and Composition on the Catalytic Properties of PdSn Bimetallic Nanoparticles in the PROX Reaction. Journal of Physical Chemistry C, 2014, 118, 25392-25402.	1.5	16

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73	Spontaneous in situ thermal growth of oriented acentric nanocrystals of [(E)-N,N-dimethylamino-N <sup>+</sup> -methylstilbazolium] [p-toluenesulfonate] embedded in a PMMA film on ITO generating stable SHG. Journal of Materials Chemistry C, 2014, 2, 8532-8538.	2.7	9
74	Nonlinear Autopilot Design for an Asymmetric Missile Using Robust Backstepping Control. Journal of Guidance, Control, and Dynamics, 2014, 37, 1462-1476.	1.6	36
75	High-Performance Magneto-Optic Surface Plasmon Resonance Sensor Design: An Optimization Approach. Plasmonics, 2014, 9, 1457-1462.	1.8	27
76	Silver Nanoprism Arrays Coupled to Functional Hybrid Films for Localized Surface Plasmon Resonance-Based Detection of Aromatic Hydrocarbons. ACS Applied Materials & Interfaces, 2014, 6, 7773-7781.	4.0	29
77	Luminescent ultra-small gold nanoparticles obtained by ion implantation in silica. Nuclear Instruments & Methods in Physics Research B, 2014, 326, 7-10.	0.6	9
78	Energy-transfer from ultra-small Au nanoclusters to Er <sup>3+</sup> ions: a short-range mechanism. Physical Chemistry Chemical Physics, 2014, 16, 15158.	1.3	10
79	Near-infrared room temperature luminescence of few-atom Au aggregates in silica: a path for the energy-transfer to Er <sup>3+</sup> ions. Nanoscale, 2014, 6, 1716-1724.	2.8	23
80	Cobalt/cobalt oxide nanoparticles-assembled coatings with various morphology and composition synthesized by pulsed laser deposition. Surface and Coatings Technology, 2013, 235, 784-791.	2.2	14
81	HiPIMS deposition of TiO <sub>x</sub> in an industrial-scale apparatus: Effects of target size and deposition geometry on hysteresis. Surface and Coatings Technology, 2013, 235, 714-719.	2.2	17
82	Circular Magnetoplasmonic Modes in Gold Nanoparticles. Nano Letters, 2013, 13, 4785-4789.	4.5	113
83	Patterned TiO <sub>2</sub> nanostructures fabricated with a novel inorganic resist. Materials Chemistry and Physics, 2013, 142, 712-716.	2.0	10
84	Au clustering formation by implantation in silica: optical, magnetic and sensing properties. Radiation Effects and Defects in Solids, 2013, 168, 418-430.	0.4	1
85	Local-field enhancement effect on the nonlinear optical response of gold-silver nanoplanets. Optics Express, 2012, 20, 4537.	1.7	65
86	Implantation damage effects on the Er <sup>3+</sup> luminescence in silica. Optics Express, 2012, 20, 16639.	1.7	20
87	X-ray absorption spectroscopy for metal-implanted silica. Radiation Effects and Defects in Solids, 2012, 167, 478-486.	0.4	4
88	Nonlinear Robust Autopilot for Rolling and Lateral Motions of an Aerodynamic Missile. , 2012, , .		2
89	Au and NiO nanoparticles dispersed inside porous SiO <sub>2</sub> sol-gel film: correlation between localized surface plasmon resonance and structure upon thermal annealing. Materials Research Society Symposia Proceedings, 2012, 1449, 127.	0.1	0
90	2D photonic gratings from thermal imprinting of ITO-based films. Microelectronic Engineering, 2012, 97, 193-196.	1.1	10

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91	Nonlinear optical response of gold-silver nanoplanets. Radiation Effects and Defects in Solids, 2012, 167, 520-526.	0.4	6
92	Asymmetric Plasmonic Nanoshells as Subwavelength Directional Nanoantennas and Color Nanorouters: A Multipole Interference Approach. Journal of Physical Chemistry C, 2012, 116, 21536-21546.	1.5	19
93	Robust backstepping control of missile lateral and rolling motions in the presence of unmatched uncertainties. , 2012, , .		2
94	Cooperative effect of Au and Pt inside TiO <sub>2</sub> matrix for optical hydrogen detection at room temperature using surface plasmon spectroscopy. Nanoscale, 2012, 4, 5972.	2.8	49
95	Improved thermal stability of Au nanorods by use of photosensitive layered titanates for gas sensing applications. Journal of Materials Chemistry, 2011, 21, 13074.	6.7	18
96	Nanoantenna Arrays for Large-Area Emission Enhancement. Journal of Physical Chemistry C, 2011, 115, 24662-24665.	1.5	24
97	Colloidal approach to Au-loaded TiO <sub>2</sub> thin films with optimized optical sensing properties. Journal of Materials Chemistry, 2011, 21, 4293.	6.7	43
98	In situ growth in a PMMA film of oriented nanocrystals of the hybrid inorganic-organic acentric material [(E)-N,N-dimethylamino-N <sup>+</sup> -methylstilbazolium][Cu <sub>5</sub> I <sub>6</sub> ]. Journal of Materials Chemistry, 2011, 21, 9778.	6.7	7
99	Stability of extreme ultraviolet multilayer coatings to low energy proton bombardment. Optics Express, 2011, 19, 14838.	1.7	49
100	Iridium/silicon multilayers for extreme ultraviolet applications in the 20-35 nm wavelength range. Optics Letters, 2011, 36, 1203.	1.7	24
101	Novel multifunctional nanocomposites from titanate nanosheets and semiconductor quantum dots. Optical Materials, 2011, 33, 1839-1846.	1.7	10
102	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.	2.0	11
103	Nanocomposites of titania and hybrid matrix with high refractive index. Journal of Nanoparticle Research, 2011, 13, 1697-1708.	0.8	28
104	On the role of non-bridging oxygen centers in the red luminescence emission from silicon nanocrystals. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 974-978.	0.8	6
105	Enhancement of photoluminescence in Er-doped Ag-SiO <sub>2</sub> nanocomposite thin films: A post annealing study. Vacuum, 2011, 85, 806-809.	1.6	23
106	Synthesis and tailoring of CdSe core@shell heterostructures for optical applications. , 2011, , .		3
107	Enhancement of the Er <sup>3+</sup> luminescence in Er-doped silica by few-atom metal aggregates. Physical Review B, 2011, 83, .	1.1	48
108	Enhancement of Er <sup>3+</sup> luminescence by metal aggregates. Radiation Effects and Defects in Solids, 2011, 166, 357-366.	0.4	2

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109	On the Red Photoluminescence Emission from Surface-Oxidised Silicon Nanocrystals. , 2010, , .		1
110	Transmission Electron Microscopy Of Lipid Vesicles For Drug Delivery. AIP Conference Proceedings, 2010, , .	0.3	3
111	Plasmonic Nanoshell Antennas for Enhanced Sensing Bio-Labeling. , 2010, , .		1
112	Nanopatterning of silica with mask-assisted ion implantation. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 3211-3214.	0.6	19
113	Photocoercivity of Nano- $\epsilon$ -Stabilized Au:Fe Superparamagnetic Nanoparticles. Advanced Materials, 2010, 22, 4054-4058.	11.1	39
114	Synthesis and characterization of SnO <sub>2</sub> nanoparticles embedded in silica by ion implantation. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 3063-3065.	0.6	9
115	Study of defects in implanted silica glass by depth profiling Positron Annihilation Spectroscopy. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 3186-3190.	0.6	12
116	Er site in Er+Au-implanted SiO <sub>2</sub> : Effect of annealing in reducing atmosphere. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 3215-3218.	0.6	5
117	Effect of the annealing atmosphere on the Au site in Er+Au-implanted silica. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 3219-3222.	0.6	5
118	Nonlinear optical properties of Au- $\epsilon$ -Ag nanoplanets made by ion beam processing of bimetallic nanoclusters in silica. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 3227-3230.	0.6	24
119	Hybrid organic- $\epsilon$ -inorganic ZnS-loaded nanocomposite films for stable optical coatings. Thin Solid Films, 2010, 518, 6781-6786.	0.8	16
120	Comparison study of conductometric, optical and SAW gas sensors based on porous sol- $\epsilon$ -gel silica films doped with NiO and Au nanocrystals. Sensors and Actuators B: Chemical, 2010, 143, 567-573.	4.0	29
121	Transmission Electron Microscopy of Lipid Vesicles for Drug Delivery: Comparison between Positive and Negative Staining. Microscopy and Microanalysis, 2010, 16, 456-461.	0.2	42
122	Synthesis, characterizations, and thermal induced structural transformation of silver-fullerene C <sub>60</sub> nanocomposite thin films for applications in optical devices. Journal of Applied Physics, 2010, 107, .	1.1	29
123	Improved photoluminescence properties of sol-gel derived Er <sup>3+</sup> doped silica films. Journal of Applied Physics, 2010, 108, 113116.	1.1	6
124	Au Nanoparticles in Nanocrystalline TiO <sub>2</sub> - $\epsilon$ -NiO Films for SPR-Based, Selective H <sub>2</sub> S Gas Sensing. Chemistry of Materials, 2010, 22, 3407-3417.	3.2	103
125	Stable SHG from in situ grown oriented nanocrystals of [(E)-N,N-dimethylamino-N $\epsilon$ -methylstilbazolium][p-toluenesulfonate] in a PMMA film. Journal of Materials Chemistry, 2010, 20, 1885.	6.7	42
126	Titanate Nanosheets as High Refractive Layer in Vertical Microcavity Incorporating Semiconductor Quantum Dots. Journal of Physical Chemistry C, 2010, 114, 18423-18428.	1.5	23

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127	Femtosecond nonlinear absorption of gold nanoshells at surface plasmon resonance. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 13692.	1.3	27
128	Coupling between magnetic and optical properties of stable Au-Fe solid solution nanoparticles. <i>Nanotechnology</i> , 2010, 21, 165701.	1.3	36
129	SnO <sub>2</sub> nanoparticles embedded in silica by ion implantation followed by thermal oxidation. <i>Journal of Applied Physics</i> , 2009, 106, 104304.	1.1	9
130	Radiation damage characterization in implanted silica. <i>Radiation Effects and Defects in Solids</i> , 2009, 164, 417-423.	0.4	2
131	Tunable, directional and wavelength selective plasmonic nanoantenna arrays. <i>Nanotechnology</i> , 2009, 20, 065201.	1.3	26
132	Direct evidence by positron annihilation spectroscopy of defect distributions deeper than $\lambda_p$ in Ar <sup>+</sup> implanted silica glass. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 115418.	1.3	13
133	Saturable absorption of femtosecond laser pulses at surface plasmon resonance in gold nanoshells. <i>Proceedings of SPIE</i> , 2009, , .	0.8	1
134	Metal Nanoclusters for Optical Properties. <i>Topics in Applied Physics</i> , 2009, , 287-316.	0.4	35
135	Structural evolution of Pd-capped Mg thin films under H <sub>2</sub> absorption and desorption cycles. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 4817-4826.	3.8	40
136	Self-assembled gold nanoparticle monolayers in sol-gel matrices: synthesis and gas sensing applications. <i>Journal of Materials Chemistry</i> , 2009, 19, 2051.	6.7	44
137	Light Extraction with Dielectric Nanoantenna Arrays. <i>ACS Nano</i> , 2009, 3, 2715-2721.	7.3	48
138	Surface plasmon resonance optical gas sensing of nanostructured ZnO films. <i>Sensors and Actuators B: Chemical</i> , 2008, 130, 531-537.	4.0	49
139	Optical gas sensing of TiO <sub>2</sub> and TiO <sub>2</sub> /Au nanocomposite thin films. <i>Sensors and Actuators B: Chemical</i> , 2008, 132, 107-115.	4.0	89
140	Local-field enhancement in metallic nanoplanets. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2008, 149, 247-250.	1.7	5
141	Nanostructure, composition and magnetic properties in soft and hard Co-Ni nanoparticles: The effect on the magnetic anisotropy. <i>Inorganica Chimica Acta</i> , 2008, 361, 4138-4142.	1.2	13
142	Growth of Cookie-like Au/NiO Nanoparticles in SiO <sub>2</sub> Sol-Gel Films and Their Optical Gas Sensing Properties. <i>Crystal Growth and Design</i> , 2008, 8, 744-749.	1.4	25
143	Self-Assembled Mesoporous Silica-Germania Films. <i>Chemistry of Materials</i> , 2008, 20, 3259-3265.	3.2	11
144	Synthesis of Metal Nanoclusters upon Using Ion Implantation. , 2008, , 269-291.		1

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145	Synthesis and characterizations of silver-fullerene C70 nanocomposite. Applied Physics Letters, 2008, 93, .	1.5	42
146	Size-dependent oxidation in ZnO nanoparticles embedded in ion-implanted silica. Journal of Applied Physics, 2008, 104, 093505.	1.1	12
147	Optical Sensing to Organic Vapors of Fluorinated Polyimide Nanocomposites containing Silver Nanoclusters. , 2008, , .		0
148	Core-Satellite Metallic Nanoclusters in Silica Obtained by Multiple Ion Beam Processing. Materials Research Society Symposia Proceedings, 2007, 1020, 1.	0.1	0
149	Structural properties of reactively sputtered Wâ€“Siâ€“N thin films. Journal of Applied Physics, 2007, 102, 033505.	1.1	8
150	Selective optical detection of H<sub>2</sub> and CO with SiO<sub>2</sub>solâ€“gel films containing NiO and Au nanoparticles. Nanotechnology, 2007, 18, 475505.	1.3	36
151	Single-electron transport and magnetic properties ofFeâˆ“SiO2nanocomposites prepared by ion implantation. Physical Review B, 2007, 75, .	1.1	22
152	Local-field enhancement and plasmon tuning in bimetallic nanoplanets. Optics Express, 2007, 15, 10097.	1.7	34
153	Synthesis by co-sputtering of Auâ€“Cu alloy nanoclusters in silica. Journal of Non-Crystalline Solids, 2007, 353, 697-702.	1.5	13
154	Cookie-like Au/NiO Nanoparticles with Optical Gas-Sensing Properties. Advanced Materials, 2007, 19, 561-564.	11.1	133
155	Auâ€“Cu nanoparticles in silica glass as composite material for photonic applications. Applied Surface Science, 2007, 254, 1017-1021.	3.1	42
156	Thermal evolution of cobalt nanocrystals embedded in silica. Materials Science and Engineering C, 2007, 27, 193-196.	3.8	9
157	Gold nanoclustersâ€“organometallic polymer nanocomposites: Synthesis and characterization. Materials Science and Engineering C, 2007, 27, 1300-1304.	3.8	33
158	Interacting metal nanoparticles: Optical properties from nanoparticle dimers to core-satellite systems. Materials Science and Engineering C, 2007, 27, 1347-1350.	3.8	41
159	Local structure of Fe incorporated in GaInP layers by high temperature ion implantation. Nuclear Instruments & Methods in Physics Research B, 2007, 257, 332-335.	0.6	4
160	Electrical and structural characterization of Fe implanted GaInP. Physica B: Condensed Matter, 2007, 401-402, 278-281.	1.3	0
161	Surface plasmon resonance study on the optical sensing properties of nanometric polyimide films to volatile organic vapours. Sensors and Actuators B: Chemical, 2007, 120, 712-718.	4.0	13
162	Some aspects of ion implantation technique in nanostructured materials. Physica Status Solidi (A) Applications and Materials Science, 2007, 204, 621-630.	0.8	11

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163	Magneto-optical detection of the relaxation dynamics of alloy nanoparticles with a high-stability magnetic circular dichroism setup. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 316, e798-e801.	1.0	8
164	Formation of silver nanoclusters in transparent polyimides by Ag-K ion-exchange process. <i>European Physical Journal D</i> , 2007, 42, 243-251.	0.6	12
165	Electrical Activation Of Fe Impurities Introduced In III-V Semiconductors By High Temperature Ion Implantation. <i>AIP Conference Proceedings</i> , 2007, , .	0.3	0
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167	Sub-nanometric metallic Au clusters as efficient Er <sup>3+</sup> sensitizers in silica. <i>Applied Physics Letters</i> , 2006, 89, 151121.	1.5	75
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