

Alessandro Martucci

List of Publications by Year in descending order

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255
papers

6,518
citations

71004

43
h-index

120465

65
g-index

258
all docs

258
docs citations

258
times ranked

9718
citing authors

#	ARTICLE	IF	CITATIONS
1	Photoluminescence properties of silk-carbon quantum dots composites. <i>Journal of Sol-Gel Science and Technology</i> , 2023, 107, 170-177.	1.1	4
2	Synthesis of magnetic nanoparticles by laser ablation of strontium ferrite under water and their characterization by optically detected magnetophoresis supported by BEM calculations. <i>Journal of Materials Chemistry C</i> , 2022, 10, 3819-3825.	2.7	4
3	Effects of Solvent and Electrospinning Parameters on the Morphology and Piezoelectric Properties of PVDF Nanofibrous Membrane. <i>Nanomaterials</i> , 2022, 12, 962.	1.9	26
4	Bioinspired silica-based sol-gel micropatterns on aluminium for humid air condensation. <i>Journal of Sol-Gel Science and Technology</i> , 2022, 102, 466-477.	1.1	5
5	Mechanisms of dropwise condensation on aluminum coated surfaces. <i>Journal of Physics: Conference Series</i> , 2022, 2177, 012046.	0.3	4
6	Simultaneous measurement of heat flux and droplet population during dropwise condensation from humid air flowing on a vertical surface. <i>Experimental Thermal and Fluid Science</i> , 2022, 136, 110677.	1.5	11
7	Effect of steam velocity during dropwise condensation. <i>International Journal of Heat and Mass Transfer</i> , 2021, 165, 120624.	2.5	18
8	Toxicological effects and bioaccumulation of fullerene C60 (FC60) in the marine bivalve <i>Ruditapes philippinarum</i> . <i>Ecotoxicology and Environmental Safety</i> , 2021, 207, 111560.	2.9	10
9	Solution-processed graphene oxide coatings for enhanced heat transfer during dropwise condensation of steam. <i>Nano Select</i> , 2021, 2, 61-71.	1.9	12
10	An overview of biopolymer-based nanocomposites for optics and electronics. <i>Journal of Materials Chemistry C</i> , 2021, 9, 5578-5593.	2.7	30
11	ZnO thin films containing aliovalent ions for NO ₂ gas sensor activated by visible light. <i>Ceramics International</i> , 2021, 47, 25017-25028.	2.3	16
12	SILAR Deposition of Metal Oxide Nanostructured Films. <i>Small</i> , 2021, 17, e2101666.	5.2	33
13	Glass-ceramic composites for high-power white-light-emitting diodes. <i>Ceramics International</i> , 2021, 47, 17986-17992.	2.3	10
14	Optical detection of the susceptibility tensor in two-dimensional crystals. <i>Communications Physics</i> , 2021, 4, .	2.0	26
15	Artificial photosynthesis: photoanodes based on polyquinoid dyes onto mesoporous tin oxide surface. <i>Photochemical and Photobiological Sciences</i> , 2021, 20, 1243-1255.	1.6	10
16	PVDF-TiO ₂ core-shell fibrous membranes by microwave-hydrothermal method: Preparation, characterization, and photocatalytic activity. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106250.	3.3	24
17	Droplet sweeping to enhance heat transfer during dropwise condensation. <i>Journal of Physics: Conference Series</i> , 2021, 2116, 012013.	0.3	2
18	Doping reduced graphene oxide and graphitic carbon nitride hybrid for dual functionality: High performance supercapacitance and hydrogen evolution reaction. <i>Journal of Electroanalytical Chemistry</i> , 2020, 856, 113503.	1.9	21

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19	Non-enzymatic multispecies sensing of key wine attributes with nickel nanoparticles on N-doped graphene composite. <i>Journal of Solid State Electrochemistry</i> , 2020, 24, 45-56.	1.2	2
20	Structural properties and defect related luminescence of Yb-doped NiO sol-gel thin films. <i>Superlattices and Microstructures</i> , 2020, 138, 106361.	1.4	40
21	Color switching by polarization effects in phase change materials. <i>Optics Communications</i> , 2020, 459, 124957.	1.0	9
22	Heat transfer and droplet population during dropwise condensation on durable coatings. <i>Applied Thermal Engineering</i> , 2020, 179, 115718.	3.0	24
23	Nanocrystalline TiO ₂ Sensitive Layer for Plasmonic Hydrogen Sensing. <i>Nanomaterials</i> , 2020, 10, 1490.	1.9	4
24	A novel physics methodology based on compact emission spectroscopy in the VNIR (0.4–0.9 μm) ranges for plasma shock layer/material temperature determinations and surface emissivity evaluations in the VNIR – LWIR (7–14 μm) ranges during atmospheric re-entry by PWT facility. <i>Infrared Physics and Technology</i> , 2020, 108, 103353.	1.3	7
25	Nanomechanical and tribological characterization of silk and silk-titanate composite coatings. <i>Tribology International</i> , 2020, 146, 106195.	3.0	5
26	Combined AOPs for Formaldehyde Degradation Using Heterogeneous Nanostructured Catalysts. <i>Nanomaterials</i> , 2020, 10, 148.	1.9	11
27	Editorial: Biointerfacing 2D Nanomaterials and Engineered Heterostructures. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 639723.	2.0	1
28	Surface susceptibility and conductivity of MoS_2 and WSe_2 monolayers: A first-principles and ellipsometry characterization. <i>Physical Review B</i> , 2020, 101, .	1.1	28
29	Optimization of Hybrid Sol-Gel Coating for Dropwise Condensation of Pure Steam. <i>Materials</i> , 2020, 13, 878.	1.3	12
30	Optical gas sensors. , 2020, , 271-292.		1
31	Room-temperature sensing performance of hydrogen using palladium-based film by optical setup. <i>Optica Applicata</i> , 2020, 50, .	0.1	0
32	Light-Activated Chemoresistive and Plasmonic-Resonant Optical Sensors for NO ₂ and H ₂ Sensing Based on ZnO Doped Nanoparticles. <i>ECS Meeting Abstracts</i> , 2020, MA2020-01, 2160-2160.	0.0	0
33	Heavily Doped Zinc Oxide Thin Films for Nitrogen Dioxide Optical Gas Sensing. <i>ECS Meeting Abstracts</i> , 2020, MA2020-01, 2383-2383.	0.0	0
34	Semiconductor quantum dot-doped sol-gel materials. , 2020, , 209-226.		1
35	Optical Gas Sensors Based on Localised Surface Plasmon Resonance. <i>Proceedings (mdpi)</i> , 2019, 14, 19.	0.2	2
36	Heat transfer during dropwise condensation of steam over a mirror polished sol-gel coated aluminum substrate. <i>International Journal of Thermal Sciences</i> , 2019, 144, 93-106.	2.6	19

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37	Gold Nanodisks Plasmonic Array for Hydrogen Sensing at Low Temperature. <i>Sensors</i> , 2019, 19, 647.	2.1	10
38	Sol-Gel Dewetting: Fabrication of Biomimetic Micropatterned Surfaces by Sol-Gel Dewetting (Adv.) <i>Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50</i>	1.9	10
39	Plasma Electrolytic Oxidation (PEO) as pre-treatment for sol-gel coating on aluminum and magnesium alloys. <i>Surface and Coatings Technology</i> , 2019, 366, 114-123.	2.2	79
40	DEMS studies of the ethanol electro-oxidation on TiOC supported Pt catalystsâ€“Support effects for higher CO2 efficiency. <i>Electrochimica Acta</i> , 2019, 304, 80-86.	2.6	14
41	Effect of Ni Doping on the MoS2 Structure and Its Hydrogen Evolution Activity in Acid and Alkaline Electrolytes. <i>Surfaces</i> , 2019, 2, 531-545.	1.0	34
42	A green and low-cost synthetic approach based on deep eutectic choline-urea solvent toward synthesis of CZTS thin films. <i>Ionics</i> , 2019, 25, 2755-2761.	1.2	8
43	Fabrication of Biomimetic Micropatterned Surfaces by Solâ€“Gel Dewetting. <i>Advanced Materials Interfaces</i> , 2019, 6, 1801629.	1.9	12
44	Functionalization of Titanatesâ€“Silk Nanocomposites via Cation Exchange for Optical Applications. <i>Advanced Materials Interfaces</i> , 2019, 6, 1800992.	1.9	4
45	Elaboration and characterization of PVP-assisted NiO thin films for enhanced sensitivity toward H2 and NO2 gases. <i>Ceramics International</i> , 2019, 45, 5779-5787.	2.3	22
46	SiO2â€“TiO2 multilayer via electrochemical deposition: characterization of reflection and refractive index. <i>Journal of Sol-Gel Science and Technology</i> , 2019, 89, 196-204.	1.1	10
47	Sintered glass ceramics for high-power white-light-emitting diodes (Conference Presentation). , 2019, ,		0
48	Room-temperature optical detection of hydrogen gas using palladium nano-islands. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 5783-5792.	3.8	18
49	Bioaccumulation and effects of titanium dioxide nanoparticles and bulk in the clam <i>Ruditapes philippinarum</i> . <i>Marine Environmental Research</i> , 2018, 136, 179-189.	1.1	38
50	Structure and composition evaluation of heavily Ge-doped ZnO nanocrystal films. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 085302.	1.3	7
51	Engineering optical defects in biopolymer photonic lattices. <i>Journal of Materials Chemistry C</i> , 2018, 6, 966-971.	2.7	6
52	Titanate Fibroin Nanocomposites: A Novel Approach for the Removal of Heavy-Metal Ions from water. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 651-659.	4.0	37
53	Sol-gel nanocomposites for optical applications. <i>Journal of Sol-Gel Science and Technology</i> , 2018, 88, 551-563.	1.1	12
54	Morphological and Functional Modifications of Optical Thin Films for Space Applications Irradiated with Low-Energy Helium Ions. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 34781-34791.	4.0	17

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55	Effect of Pt Nanoparticles on the Plasmonic and Chemoresistive Gas Sensing Properties of ZnO:Ga Film. Proceedings (mdpi), 2018, 2, .	0.2	0
56	Nano-structured aluminum surfaces for dropwise condensation. Surface and Coatings Technology, 2018, 348, 1-12.	2.2	42
57	Measurement of the surface susceptibility and the surface conductivity of atomically thin MoS ₂ by spectroscopic ellipsometry. Optics Letters, 2018, 43, 703.	1.7	35
58	Ag nanoaggregates as efficient broadband sensitizers for Tb ³⁺ ions in silica-zirconia ion-exchanged sol-gel glasses and glass-ceramics. Optical Materials, 2018, 84, 668-674.	1.7	14
59	Au Nanoparticle Sub-Monolayers Sandwiched between Sol-Gel Oxide Thin Films. Materials, 2018, 11, 423.	1.3	1
60	Sol-Gel Nanocomposites. , 2018, , 3041-3063.		4
61	Role of Ag multimers as broadband sensitizers in Tb ³⁺ /Yb ³⁺ co-doped glass-ceramics. , 2018, , .		1
62	EXPERIMENTS OF DROPWISE CONDENSATION ON WETTABILITY CONTROLLED SURFACES. , 2018, , .		2
63	SiO ₂ -SnO ₂ :Er ³⁺ transparent glass-ceramics: fabrication and photonic assessment. , 2018, , .		1
64	Acidochromic fibrous polymer composites for rapid gas detection. Journal of Materials Chemistry A, 2017, 5, 339-348.	5.2	66
65	Continuous palladium-based thin films for hydrogen detection. , 2017, , .		0
66	Photoemission during flash sintering: An interpretation based on thermal radiation. Journal of the European Ceramic Society, 2017, 37, 3125-3130.	2.8	50
67	In situ real-time investigation of hydrogen-induced structural and optical changes in palladium thin films. Journal of Alloys and Compounds, 2017, 704, 303-310.	2.8	8
68	Bioinspired stimuli-responsive multilayer film made of silk-titanate nanocomposites. Journal of Materials Chemistry C, 2017, 5, 3924-3931.	2.7	49
69	Nitrogen and Sulfur Doped Mesoporous Carbons, Prepared from Templating Silica, as Interesting Material for Supercapacitors. ChemistrySelect, 2017, 2, 7082-7090.	0.7	23
70	Qualification tests of optical coatings in space environment. , 2017, , .		0
71	Film condensation of steam flowing on a hydrophobic surface. International Journal of Heat and Mass Transfer, 2017, 107, 307-318.	2.5	42
72	Near Infrared Plasmonic Gas Sensing with Doped Metal Oxide Nanocrystals. Proceedings (mdpi), 2017, 1, .	0.2	3

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73	Glass based structures fabricated by rf-sputtering. , 2017, , .		0
74	Ions irradiation on bi-layer coatings. , 2017, , .		0
75	Systematic investigation of the optical coatings damages induced in harsh space environment. , 2017, , .		0
76	Plasmonic Au@Pd Nanorods with Boosted Refractive Index Susceptibility and SERS Efficiency: A Multifunctional Platform for Hydrogen Sensing and Monitoring of Catalytic Reactions. Chemistry of Materials, 2016, 28, 9169-9180.	3.2	85
77	Preparation of high-porosity TiO _x C _y powders from a single templating carbon source. Ceramics International, 2016, 42, 7690-7696.	2.3	1
78	Glass-based 1-D dielectric microcavities. Optical Materials, 2016, 61, 11-14.	1.7	5
79	In vivo exposure of the marine clam Ruditapes philippinarum to zinc oxide nanoparticles: responses in gills, digestive gland and haemolymph. Environmental Science and Pollution Research, 2016, 23, 15275-15293.	2.7	53
80	In situ study of structural and optical properties of Pd thin film during hydrogen exposure. , 2016, , .		0
81	ZnO and Au/ZnO thin films: Room-temperature chemoresistive properties for gas sensing applications. Sensors and Actuators B: Chemical, 2016, 237, 1085-1094.	4.0	54
82	Optical components in harsh space environment. , 2016, , .		2
83	Degenerately Doped Metal Oxide Nanocrystals as Plasmonic and Chemoresistive Gas Sensors. ACS Applied Materials & Interfaces, 2016, 8, 30440-30448.	4.0	58
84	Dropwise condensation over superhydrophobic aluminium surfaces. Journal of Physics: Conference Series, 2016, 745, 032134.	0.3	17
85	Transparent carbon nanotube film as sensitive material for surface plasmon resonance based optical sensors. Sensors and Actuators B: Chemical, 2016, 236, 1098-1103.	4.0	16
86	Analysis of defect luminescence in Ga-doped ZnO nanoparticles. Physical Chemistry Chemical Physics, 2016, 18, 9586-9593.	1.3	31
87	Electrochemical Behavior of TiO _x C _y as Catalyst Support for Direct Ethanol Fuel Cells at Intermediate Temperature: From Planar Systems to Powders. ACS Applied Materials & Interfaces, 2016, 8, 716-725.	4.0	30
88	Chemoresistive properties of photo-activated thin and thick ZnO films. Sensors and Actuators B: Chemical, 2016, 222, 1251-1256.	4.0	40
89	Sol-gel Nanocomposites. , 2016, , 1-23.		4
90	Fabrication of Tunable, High Refractive Index Titanate-Silk Nanocomposites on the Micro and Nanoscale. Advanced Materials, 2015, 27, 6728-6732.	11.1	31

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91	Sol-Gel Thin Films for Plasmonic Gas Sensors. <i>Sensors</i> , 2015, 15, 16910-16928.	2.1	38
92	Microfluidic-based Split-Ring-Resonator Sensor for Real-time and Label-free Biosensing. <i>Procedia Engineering</i> , 2015, 120, 163-166.	1.2	27
93	Low temperature near infrared plasmonic gas sensing of gallium and aluminum doped zinc oxide thin films from colloidal inks (Presentation Recording). <i>Proceedings of SPIE</i> , 2015, , .	0.8	0
94	Surface plasmon spectroscopy study of electron exchange between single gold nanorods and metal oxide matrix during hydrogen gas sensing (Presentation Recording). , 2015, , .		0
95	Optical Hydrogen Sensing Based on Hybrid 2D MoO ₃ /Au Nanoparticles. <i>Procedia Engineering</i> , 2015, 120, 1141-1144.	1.2	7
96	Structural features, properties, and relaxations of PMMA-ZnO nanocomposite. <i>Journal of Materials Science</i> , 2015, 50, 2218-2228.	1.7	23
97	ZnO nanorods grown on ZnO sol-gel seed films: Characteristics and optical gas-sensing properties. <i>Sensors and Actuators B: Chemical</i> , 2015, 213, 493-500.	4.0	38
98	Hybrid 1-D dielectric microcavity: Fabrication and spectroscopic assessment of glass-based sub-wavelength structures. <i>Ceramics International</i> , 2015, 41, 7429-7433.	2.3	22
99	Plasmonic Sensors for Aromatic Hydrocarbon Detection. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2015, , 487-489.	0.2	0
100	Hydrogen Spillover between Single Gold Nanorods and Metal Oxide Supports: A Surface Plasmon Spectroscopy Study. <i>ACS Nano</i> , 2015, 9, 7846-7856.	7.3	65
101	Determination of the Optical Constants of Gold Nanoparticles from Thin-Film Spectra. <i>Journal of Physical Chemistry C</i> , 2015, 119, 9450-9459.	1.5	14
102	Fast One-Pot Synthesis of MoS ₂ /Crumpled Graphene p-n Nanonjunctions for Enhanced Photoelectrochemical Hydrogen Production. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 25685-25692.	4.0	63
103	Photonic Sintering of Copper through the Controlled Reduction of Printed CuO Nanocrystals. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 25473-25478.	4.0	57
104	Grating-coupled surface plasmon resonance gas sensing based on titania anatase nanoporous films. <i>Proceedings of SPIE</i> , 2015, , .	0.8	0
105	Plasmonic sensing structure of carbon nanotubes and gold nanoparticles for hydrogen detection (Presentation Recording). , 2015, , .		0
106	Nitrogen and sulfur doped mesoporous carbon as metal-free electrocatalysts for the in situ production of hydrogen peroxide. <i>Carbon</i> , 2015, 95, 949-963.	5.4	252
107	In-vitro exposure of haemocytes of the clam <i>Ruditapes philippinarum</i> to titanium dioxide (TiO ₂) nanoparticles: Nanoparticle characterisation, effects on phagocytic activity and internalisation of nanoparticles into haemocytes. <i>Marine Environmental Research</i> , 2015, 103, 11-17.	1.1	58
108	Au and Pt Nanoparticles Effects on the Optical and Electrical Gas Sensing Properties of Sol-gel-Based ZnO Thin-Film Sensors. <i>IEEE Sensors Journal</i> , 2015, 15, 1068-1076.	2.4	45

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109	CNT-Ni-Pd Nanocomposite Films for Optical Gas Sensor. <i>Procedia Engineering</i> , 2014, 87, 963-966.	1.2	7
110	Effect of Pt Nanoparticles on the Optical Gas Sensing Properties of WO ₃ Thin Films. <i>Sensors</i> , 2014, 14, 11427-11443.	2.1	18
111	Electrical, Optical and Sensing Properties of Photo-activated ZnO Thin Films. <i>Procedia Engineering</i> , 2014, 87, 148-151.	1.2	8
112	Transmetallation as an effective strategy for the preparation of bimetallic CoPd and CuPd nanoparticles. <i>Nanoscale</i> , 2014, 6, 1560-1566.	2.8	8
113	Effect of Crystalline Phase and Composition on the Catalytic Properties of PdSn Bimetallic Nanoparticles in the PROX Reaction. <i>Journal of Physical Chemistry C</i> , 2014, 118, 25392-25402.	1.5	16
114	Characterization Methods. , 2014, , 83-108.		1
115	Solution-processed CdS thin films from a single-source precursor. <i>Journal of Materials Chemistry C</i> , 2014, 2, 3247-3253.	2.7	16
116	Graphene oxide coupled with gold nanoparticles for localized surface plasmon resonance based gas sensor. <i>Carbon</i> , 2014, 69, 452-459.	5.4	96
117	Silver Nanoprism Arrays Coupled to Functional Hybrid Films for Localized Surface Plasmon Resonance-Based Detection of Aromatic Hydrocarbons. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 7773-7781.	4.0	29
118	Fabrication and Spectroscopic Assessment of Glass-Based Sub-Wavelength Structures for Hybrid 1-D Dielectric 633-nm Laser Microcavity. , 2014, , .		0
119	Xylene sensing properties of aryl-bridged polysilsesquioxane thin films coupled to gold nanoparticles. <i>Journal of Materials Chemistry C</i> , 2013, 1, 4252.	2.7	23
120	Reducing gases and VOCs optical sensing using surface plasmon spectroscopy of porous TiO ₂ @Au colloidal films. <i>Sensors and Actuators B: Chemical</i> , 2013, 187, 363-370.	4.0	16
121	Patterned TiO ₂ nanostructures fabricated with a novel inorganic resist. <i>Materials Chemistry and Physics</i> , 2013, 142, 712-716.	2.0	10
122	Low-Temperature Processed Ga-Doped ZnO Coatings from Colloidal Inks. <i>Journal of the American Chemical Society</i> , 2013, 135, 3439-3448.	6.6	106
123	Preparation and characterization of down shifting ZnS:Mn/PMMA nanocomposites for improving photovoltaic silicon solar cell efficiency. <i>Materials Chemistry and Physics</i> , 2013, 139, 531-536.	2.0	21
124	Short and long range surface plasmon polariton waveguides for xylene sensing. <i>Nanotechnology</i> , 2013, 24, 155502.	1.3	32
125	Incorporation of luminescent CdSe/ZnS core-shell quantum dots and PbS quantum dots into solution-derived chalcogenide glass films. <i>Optical Materials Express</i> , 2013, 3, 729.	1.6	35
126	Detecting H ₂ S oscillatory response using surface plasmon spectroscopy. <i>Materials Research Society Symposia Proceedings</i> , 2013, 1552, 77-82.	0.1	2

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127	Sol-gel thin films for photonic application. Proceedings of SPIE, 2012, , .	0.8	0
128	Au and NiO nanoparticles dispersed inside porous SiO ₂ 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
129	Design and fabrication of a light trapping method for photovoltaic devices based on plasmonic gratings. Microelectronic Engineering, 2012, 98, 440-443.	1.1	9
130	Optimized Electroless Silver Coating for Optical and Plasmonic Applications. Plasmonics, 2012, 7, 633-639.	1.8	32
131	Cooperative effect of Au and Pt inside TiO ₂ matrix for optical hydrogen detection at room temperature using surface plasmon spectroscopy. Nanoscale, 2012, 4, 5972.	2.8	49
132	Highly Luminescent and Temperature Stable Quantum Dot Thin Films Based on a ZnS Composite. Chemistry of Materials, 2012, 24, 2117-2126.	3.2	23
133	Layer-by-Layer Assembly of Sintered CdSe _x Te _{1-x} Nanocrystal Solar Cells. ACS Nano, 2012, 6, 5995-6004.	7.3	130
134	CO optical sensing properties of nanocrystalline ZnO@Au films: Effect of doping with transition metal ions. Sensors and Actuators B: Chemical, 2012, 161, 675-683.	4.0	45
135	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.	4.0	69
136	Functional three-dimensional nonlinear nanostructures in a gold ion nanocomposite. , 2011, , .		0
137	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
138	CdSe Core-Shell Nanoparticles as Active Materials for Up-Converted Emission. Journal of Physical Chemistry C, 2011, 115, 3840-3846.	1.5	16
139	Facile production of up-converted quantum dot lasers. Nanoscale, 2011, 3, 4109.	2.8	18
140	Au Nanoparticle Monolayers Covered with Sol-Gel Oxide Thin Films: Optical and Morphological Study. Langmuir, 2011, 27, 13739-13747.	1.6	27
141	One- and Two-Photon Pumped DFB Laser Based on Semiconductor Quantum Dots Embedded in a Sol-Gel Matrix. NATO Science for Peace and Security Series B: Physics and Biophysics, 2011, , 415-416.	0.2	0
142	ZnO-NiO Thin Films Containing Au Nanoparticles for CO Optical Sensing. Sensor Letters, 2011, 9, 600-604.	0.4	7
143	Colloidal approach to Au-loaded TiO ₂ thin films with optimized optical sensing properties. Journal of Materials Chemistry, 2011, 21, 4293.	6.7	43
144	Integrated Photonic Micro Logic Gate. Lecture Notes in Computer Science, 2011, , 1-9.	1.0	0

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145	Size Effect of Au Nanoparticles on TiO ₂ Crystalline Phase of Nanocomposite Thin Films and Their Photocatalytic Properties. <i>Journal of Physical Chemistry C</i> , 2011, 115, 6554-6560.	1.5	55
146	Role of Au Nanoparticles and NiTiO ₃ Matrix in H ₂ S Sensing and Its Catalytic Oxidation to SO _x . <i>Sensor Letters</i> , 2011, 9, 591-594.	0.4	7
147	Novel multifunctional nanocomposites from titanate nanosheets and semiconductor quantum dots. <i>Optical Materials</i> , 2011, 33, 1839-1846.	1.7	10
148	Spectroscopic ellipsometry analyses of thin films in different environments: An innovative "reverse side" approach allowing multi angle measurements. <i>Optical Materials</i> , 2011, 34, 79-84.	1.7	5
149	SiO ₂ mesoporous thin films containing Ag and NiO nanoparticles synthesized combining sol-gel and impregnation techniques. <i>Materials Chemistry and Physics</i> , 2011, 131, 313-319.	2.0	11
150	Gold nanoparticles to boost the gas sensing performance of porous sol-gel thin films. <i>Journal of Sol-Gel Science and Technology</i> , 2011, 60, 366-377.	1.1	15
151	Nanocomposites of titania and hybrid matrix with high refractive index. <i>Journal of Nanoparticle Research</i> , 2011, 13, 1697-1708.	0.8	28
152	Structural evolution and hydrogen sulfide sensing properties of NiTiO ₃ -TiO ₂ sol-gel thin films containing Au nanoparticles. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2011, 176, 716-722.	1.7	36
153	All-optical integrated micro logic gate. <i>Microelectronics Journal</i> , 2011, 42, 472-476.	1.1	5
154	Synthesis and tailoring of CdSe core-shell heterostructures for optical applications. , 2011, , .		3
155	WO ₃ -Au-Pt Nanocrystalline Thin Films as Optical Gas Sensors. <i>Sensor Letters</i> , 2011, 9, 595-599.	0.4	7
156	One- and two-photon pumped soft lithographed DFB laser systems based on semiconductor core-shell quantum dots. , 2010, , .		2
157	Erbium environment on Er-doped silica and alumino-silicate glass films: An EXAFS study. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2010, 268, 311-315.	0.6	6
158	Hybrid organic-inorganic ZnS-loaded nanocomposite films for stable optical coatings. <i>Thin Solid Films</i> , 2010, 518, 6781-6786.	0.8	16
159	Comparison study of conductometric, optical and SAW gas sensors based on porous sol-gel silica films doped with NiO and Au nanocrystals. <i>Sensors and Actuators B: Chemical</i> , 2010, 143, 567-573.	4.0	29
160	TiO ₂ sol-gel thin films containing Au and Pt nanoparticles with controlled morphology: optical study and gas sensing properties. <i>Proceedings of SPIE</i> , 2010, , .	0.8	1
161	Au Nanoparticles in Nanocrystalline TiO ₂ -NiO Films for SPR-Based, Selective H ₂ S Gas Sensing. <i>Chemistry of Materials</i> , 2010, 22, 3407-3417.	3.2	103
162	Titanate Nanosheets as High Refractive Layer in Vertical Microcavity Incorporating Semiconductor Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2010, 114, 18423-18428.	1.5	23

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163	Fabrication of ZnO Thin Films from Nanocrystal Inks. Journal of Physical Chemistry C, 2010, 114, 19815-19821.	1.5	26
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