Giovanni Mattei

List of Publications by Year in descending order

285 papers	6,161 citations	66315 42 h-index	133188 59 g-index

295 all docs	295 docs citations	295 times ranked	5815 citing authors

#	Article	IF	Citations
1	Cookie-like Au/NiO Nanoparticles with Optical Gas-Sensing Properties. Advanced Materials, 2007, 19, 561-564.	11.1	133
2	Circular Magnetoplasmonic Modes in Gold Nanoparticles. Nano Letters, 2013, 13, 4785-4789.	4.5	113
3	Finite depth square well model: Applicability and limitations. Journal of Applied Physics, 2005, 97, 073706.	1.1	107
4	Au Nanoparticles in Nanocrystalline TiO₂â^'NiO Films for SPR-Based, Selective H₂S Gas Sensing. Chemistry of Materials, 2010, 22, 3407-3417.	3.2	103
5	Clustering of gold atoms in ion-implanted silica after thermal annealing in different atmospheres. Physical Review B, 2001, 63, .	1.1	91
6	Annealing behavior of silver, copper, and silverâ€“copper nanoclusters in a silica matrix synthesized by the solâ€gel technique. Journal of Applied Physics, 1996, 80, 6734-6739.	1.1	90
7	Synthesis of silver clusters in silica-based glasses for optoelectronics applications. Journal of Non-Crystalline Solids, 1999, 245, 122-128.	1.5	90
8	Optical gas sensing of TiO2 and TiO2/Au nanocomposite thin films. Sensors and Actuators B: Chemical, 2008, 132, 107-115.	4.0	89
9	Interaction of highâ€power laser light with silver nanocluster composite glasses. Applied Physics Letters, 1996, 69, 3101-3103.	1.5	88
10	Z-scan study on the nonlinear refractive index of copper nanocluster composite silica glass. Applied Physics Letters, 2001, 78, 3953-3955.	1.5	79
11	Alloy nanoclusters in dielectric matrix. Nuclear Instruments & Methods in Physics Research B, 2002, 191, 323-332.	0.6	76
12	Large third-order optical nonlinearity of nanocluster-doped glass formed by ion implantation of copper and nickel in silica. Applied Physics Letters, 1998, 73, 288-290.	1.5	75
13	Sub-nanometric metallic Au clusters as efficient Er3+ sensitizers in silica. Applied Physics Letters, 2006, 89, 151121.	1.5	75
14	Highly photo-catalytically active hierarchical 3D porous/urchin nanostructured Co3O4 coating synthesized by Pulsed Laser Deposition. Applied Catalysis B: Environmental, 2015, 166-167, 475-484.	10.8	75
15	Synthesis, Structure, and Magnetic Properties of Co, Ni, and Coâ^'Ni Alloy Nanocluster-Doped SiO2Films by Solâ^'Gel Processing. Chemistry of Materials, 2002, 14, 3440-3447.	3.2	71
16	Two stages in the kinetics of gold cluster growth in ion-implanted silica during isothermal annealing in oxidizing atmosphere. Journal of Applied Physics, 2002, 92, 4249-4254.	1.1	71
17	Auâ€“Cu alloy nanoclusters in silica formed by ion implantation and annealing in reducing or oxidizing atmosphere. Applied Physics Letters, 1999, 75, 55-57.	1.5	70
18	Highly Ordered â€œDefect-Freeâ€•Self-Assembled Hybrid Films with a Tetragonal Mesostructure. Journal of the American Chemical Society, 2005, 127, 3838-3846.	6.6	69

#	Article	IF	Citations
19	Cobalt nanoclusters in silica glass: Nonlinear optical and magnetic properties. Applied Physics Letters, 1998, 73, 1176-1178.	1.5	68
20	Silver nanoclusters formation in ion-exchanged waveguides by annealing in hydrogen atmosphere. Applied Physics A: Materials Science and Processing, 1996, 63, 403-407.	1.1	65
21	Local-field enhancement effect on the nonlinear optical response of gold-silver nanoplanets. Optics Express, 2012, 20, 4537.	1.7	65
22	Chemical- or Radiation-Assisted Selective Dealloying in Bimetallic Nanoclusters. Physical Review Letters, 2003, 90, 085502.	2.9	60
23	Structure and optical properties of Au-polyimide nanocomposite films prepared by ion implantation. Applied Physics Letters, 2004, 85, 5712-5714.	1.5	58
24	Silver-sensitized erbium-doped ion-exchanged solâ€“gel waveguides. Applied Physics A: Materials Science and Processing, 2005, 80, 557-563.	1.1	57
25	Oxidation effects on the SERS response of silver nanoprism arrays. RSC Advances, 2017, 7, 369-378.	1.7	55
26	Fast nonlinear refractive index of pure and alloy metallic nanoclusters in silica glass. Composites Science and Technology, 2003, 63, 1203-1208.	3.8	53
27	PbS-Doped Mesostructured Silica Films with High Optical Nonlinearity. Chemistry of Materials, 2005, 17, 4965-4970.	3.2	52
28	Irradiation-induced Ag-colloid formation in ion-exchanged soda-lime glass. Nuclear Instruments & Methods in Physics Research B, 1995, 96, 382-386.	0.6	50
29	Chemical and physical routes for composite materials synthesis: Ag and Ag2S nanoparticles in silica glass by solâ€“gel and ion implantation techniques. Journal of Materials Chemistry, 2002, 12, 2401-2407.	6.7	49
30	Surface plasmon resonance optical gas sensing of nanostructured ZnO films. Sensors and Actuators B: Chemical, 2008, 130, 531-537.	4.0	49
31	Stability of extreme ultraviolet multilayer coatings to low energy proton bombardment. Optics Express, 2011, 19, 14838.	1.7	49
32	Cooperative effect of Au and Pt inside TiO2 matrix for optical hydrogen detection at room temperature using surface plasmon spectroscopy. Nanoscale, 2012, 4, 5972.	2.8	49
33	Synthesis of GaN quantum dots by ion implantation in dielectrics. Journal of Applied Physics, 2001, 90, 4467-4473.	1.1	48
34	Light Extraction with Dielectric Nanoantenna Arrays. ACS Nano, 2009, 3, 2715-2721.	7.3	48
35	Enhancement of the Er<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mrow /><mml:mrow><mml:mn>3</mml:mn><mml:mo>+</mml:mo></mml:mrow></mml:msup></mml:mrow></mml:math>luminescence in Er-doped silica by few-atom metal aggregates. Physical Review B, 2011, 83, .	1.1	48
36	Auâ^'Cu Alloy Nanocluster Doped SiO2Films by Solâ^'Gel Processing. Chemistry of Materials, 2000, 12, 2157-2160.	3.2	44

#	Article	IF	Citations
37	Self-assembled gold nanoparticle monolayers in solâ€“gel matrices: synthesis and gas sensing applications. Journal of Materials Chemistry, 2009, 19, 2051.	6.7	44
38	Formation of metal-alloy nanoclusters in silica by ion implantation and annealing in selected atmosphere. Nuclear Instruments & Methods in Physics Research B, 2000, 166-167, 857-863.	0.6	43
39	Formation of silver nanoclusters by excimerâ€“laser interaction in silver-exchanged soda-lime glass. Applied Physics Letters, 2001, 79, 2456-2458.	1.5	43
40	Colloidal approach to Au-loaded TiO2 thin films with optimized optical sensing properties. Journal of Materials Chemistry, 2011, 21, 4293.	6.7	43
41	Influence of electron-beam parameters on the radiation-induced formation of graphitic onions. Ultramicroscopy, 1995, 60, 187-194.	0.8	42
42	Auâ€“Cu nanoparticles in silica glass as composite material for photonic applications. Applied Surface Science, 2007, 254, 1017-1021.	3.1	42
43	Synthesis and characterizations of silver-fullerene C70 nanocomposite. Applied Physics Letters, 2008, 93, .	1.5	42
44	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
45	Stable SHG from in situ grown oriented nanocrystals of [(E)-N,N-dimethylamino-Nâ€²-methylstilbazolium][p-toluenesulfonate] in a PMMA film. Journal of Materials Chemistry, 2010, 20, 1885.	6.7	42
46	Interacting metal nanoparticles: Optical properties from nanoparticle dimers to core-satellite systems. Materials Science and Engineering C, 2007, 27, 1347-1350.	3.8	41
47	Nanoroughness, Surface Chemistry, and Drug Delivery Control by Atmospheric Plasma Jet on Implantable Devices. ACS Applied Materials & Interfaces, 2018, 10, 39512-39523.	4.0	41
48	Structural and Optical Properties of Silver-Doped Zirconia and Mixed Zirconiaâ^'Silica Matrices Obtained by Solâ^'Gel Processing. Chemistry of Materials, 1999, 11, 814-821.	3.2	40
49	Structural evolution of Pd-capped Mg thin films under H2 absorption and desorption cycles. International Journal of Hydrogen Energy, 2009, 34, 4817-4826.	3.8	40
50	Correlation between in situ structural and optical characterization of the semiconductor-to-metal phase transition of VO₂ thin films on sapphire. Nanoscale, 2020, 12, 851-863.	2.8	40
51	Photocoercivity of Nanoâ€Stabilized Au:Fe Superparamagnetic Nanoparticles. Advanced Materials, 2010, 22, 4054-4058.	11.1	39
52	Silver nanocluster formation in ion-exchanged glasses by annealing, ion beam and laser beam irradiation: An EXAFS study. Nuclear Instruments & Methods in Physics Research B, 2003, 200, 185-190.	0.6	37
53	Evidence of energy transfer in an aluminosilicate glass codoped with Si nanoaggregates and Er3+ ions. Journal of Applied Physics, 2004, 96, 3925-3932.	1.1	37
54	Study of the gas optical sensing properties of Au-polyimide nanocomposite films prepared by ion implantation. Sensors and Actuators B: Chemical, 2005, 111-112, 225-229.	4.0	37

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55	Selective optical detection of H₂and CO with SiO₂solâ€“gel films containing NiO and Au nanoparticles. Nanotechnology, 2007, 18, 475505.	1.3	36
56	Coupling between magnetic and optical properties of stable Auâ€“Fe solid solution nanoparticles. Nanotechnology, 2010, 21, 165701.	1.3	36
57	Nonlinear Autopilot Design for an Asymmetric Missile Using Robust Backstepping Control. Journal of Guidance, Control, and Dynamics, 2014, 37, 1462-1476.	1.6	36
58	Nanocluster formation in silicate glasses by sequential ion implantation procedures. Nuclear Instruments & Methods in Physics Research B, 1999, 148, 1007-1011.	0.6	35
59	Thermal-induced phase transitions in self-assembled mesostructured films studied by small-angle X-ray scattering. Journal of Synchrotron Radiation, 2005, 12, 734-738.	1.0	35
60	Metal Nanoclusters for Optical Properties. Topics in Applied Physics, 2009, , 287-316.	0.4	35
61	Clustering of silver atoms in hydrogenated silver-sodium exchanged glasses. Applied Physics A: Materials Science and Processing, 2000, 70, 415-419.	1.1	34
62	Fast third-order optical nonlinearities in metal alloy nanocluster composite glass: negative sign of the nonlinear refractive index. Applied Surface Science, 2005, 247, 390-395.	3.1	34
63	Local-field enhancement and plasmon tuning in bimetallic nanoplanets. Optics Express, 2007, 15, 10097.	1.7	34
64	Gold nanoclustersâ€“organometallic polymer nanocomposites: Synthesis and characterization. Materials Science and Engineering C, 2007, 27, 1300-1304.	3.8	33
65	Influence of annealing atmosphere on metal and metal alloy nanoclusters produced by ion implantation in silica. Nuclear Instruments & Methods in Physics Research B, 2001, 178, 176-179.	0.6	32
66	Nonlinear absorption tuning by composition control in bimetallic plasmonic nanoprism arrays. Nanoscale, 2015, 7, 12411-12418.	2.8	31
67	Photo-acoustic detection of chirality in metal-polystyrene metasurfaces. Applied Physics Letters, 2019, 114, 053101.	1.5	31
68	Fullerene non-linear excited state absorption induced by gold nanoparticles light harvesting. Synthetic Metals, 2005, 155, 283-286.	2.1	30
69	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
70	Structural modifications in ion-implanted silicate glasses. Journal of Applied Physics, 1999, 85, 8040-8049.	1.1	29
71	Dynamics of compositional evolution of Pd-Cu alloy nanoclusters upon heating in selected atmospheres. Physical Review B, 2005, 71, .	1.1	29
72	Comparison study of conductometric, optical and SAW gas sensors based on porous solâ€“gel silica films doped with NiO and Au nanocrystals. Sensors and Actuators B: Chemical, 2010, 143, 567-573.	4.0	29

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73	Synthesis, characterizations, and thermal induced structural transformation of silver-fullerene C60 nanocomposite thin films for applications in optical devices. Journal of Applied Physics, 2010, 107, .	1.1	29
74	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
75	Structural and magnetic properties of Feâ€“Al silica composites prepared by sequential ion implantation. Nuclear Instruments & Methods in Physics Research B, 2004, 216, 245-250.	0.6	28
76	Structural and optical properties of Cu:silica nanocomposite films prepared by co-sputtering deposition. Applied Surface Science, 2004, 226, 52-56.	3.1	28
77	Nanocomposites of titania and hybrid matrix with high refractive index. Journal of Nanoparticle Research, 2011, 13, 1697-1708.	0.8	28
78	Auâ€“Ag nanoalloy molecule-like clusters for enhanced quantum efficiency emission of Er³⁺ions in silica. Physical Chemistry Chemical Physics, 2015, 17, 28262-28269.	1.3	28
79	Goldâ€“silver alloy semi-nanoshell arrays for label-free plasmonic biosensors. Nanoscale, 2017, 9, 10117-10125.	2.8	28
80	Copperâ^'Silica Nanocomposites Tailored by the Solâ^'Gel Route. Chemistry of Materials, 2005, 17, 1450-1456.	3.2	27
81	Femtosecond nonlinear absorption of gold nanoshells at surface plasmon resonance. Physical Chemistry Chemical Physics, 2010, 12, 13692.	1.3	27
82	High-Performance Magneto-Optic Surface Plasmon Resonance Sensor Design: An Optimization Approach. Plasmonics, 2014, 9, 1457-1462.	1.8	27
83	Strengths of the resonances at 436, 479, 639, 661, and 1279 keV in the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mmultiscripts><mml:mi mathvariant="normal">Ne</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>22</mml:mn></mml:mrow></mml:mmultiscripts><mml:mrow><mml:mo>(</mml:mo><mml:mi>p</mml:mi><mml:mo>,</mml:mo><mml:mi>γ</mml:mi><mml:mo>)</mml:mo></mml:mrow><mml:mmultiscripts><mml:mi mathvariant="normal">Na</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>23</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow></mml:math>. Physical Review C, 2015, 92, .	1.1	27
84	Control of silver clustering for broadband Er3+ luminescence sensitization in Er and Ag co-implanted silica. Journal of Luminescence, 2018, 197, 104-111.	1.5	27
85	Double implantation in silica glass for metal cluster composite formation: a study by synchrotron radiation techniques. Journal of Non-Crystalline Solids, 2001, 280, 241-248.	1.5	26
86	Magnetic properties of Co and Ni based alloy nanoparticles dispersed in a silica matrix. Nuclear Instruments & Methods in Physics Research B, 2001, 175-177, 479-484.	0.6	26
87	Tunable, directional and wavelength selective plasmonic nanoantenna arrays. Nanotechnology, 2009, 20, 065201.	1.3	26
88	Bidimensional ordered plasmonic nanoarrays for nonlinear optics, nanophotonics and biosensing applications. Materials Science in Semiconductor Processing, 2019, 92, 2-9.	1.9	26
89	Highly nonlinear optical composites obtained in silica and soda-lime glasses by Ti ion implantation and laser annealing. Nuclear Instruments & Methods in Physics Research B, 1998, 141, 274-278.	0.6	25
90	Growth of Cookie-like Au/NiO Nanoparticles in SiO₂ Solâ€“Gel Films and Their Optical Gas Sensing Properties. Crystal Growth and Design, 2008, 8, 744-749.	1.4	25

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91	Functional magneto-plasmonic biosensors transducers: Modelling and nanoscale analysis. Sensors and Actuators B: Chemical, 2017, 239, 100-112.	4.0	25
92	Ionic transport model for hydrogen permeation inducing silver nanocluster formation in silver-sodium exchanged glasses. Applied Physics A: Materials Science and Processing, 1998, 67, 527-529.	1.1	24
93	Ion irradiation for controlling composition and structure of metal alloy nanoclusters in SiO2. Journal of Non-Crystalline Solids, 2004, 345-346, 685-688.	1.5	24
94	Nonlinear optical properties of Auâ€“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
95	Nanoantenna Arrays for Large-Area Emission Enhancement. Journal of Physical Chemistry C, 2011, 115, 24662-24665.	1.5	24
96	Iridium/silicon multilayers for extreme ultraviolet applications in the 20â€“35 nm wavelength range. Optics Letters, 2011, 36, 1203.	1.7	24
97	Ultra-fast dynamics in the nonlinear optical response of silver nanoprism ordered arrays. Nanoscale, 2018, 10, 5182-5190.	2.8	24
98	GISAXS study of Cuâ€“Ni alloy clusters obtained by double ion implantation in silicate glasses. Journal of Applied Crystallography, 2000, 33, 740-743.	1.9	23
99	Pd-based alloy nanoclusters in ion-implanted silica: Formation and stability under thermal annealing. Nuclear Instruments & Methods in Physics Research B, 2002, 191, 392-395.	0.6	23
100	Deviation from the virtual crystal approximation in disordered Auâ€“Cu alloy nanocrystals: EXAFS and GIXRD investigation. Nuclear Instruments & Methods in Physics Research B, 2003, 200, 178-184.	0.6	23
101	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
102	Enhancement of photoluminescence in Er-doped Agâ€“SiO2 nanocomposite thin films: A post annealing study. Vacuum, 2011, 85, 806-809.	1.6	23
103	Near-infrared room temperature luminescence of few-atom Au aggregates in silica: a path for the energy-transfer to Er³⁺ions. Nanoscale, 2014, 6, 1716-1724.	2.8	23
104	Emission Rate Modification and Quantum Efficiency Enhancement of Er³⁺ Emitters by Near-Field Coupling with Nanohole Arrays. ACS Photonics, 2018, 5, 2189-2199.	3.2	23
105	Magnetic properties of Coâ€“Ni alloy nanoparticles prepared by the sol-gel technique. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E1251-E1252.	1.0	22
106	Single-electron transport and magnetic properties ofFeâ^'SiO2nanocomposites prepared by ion implantation. Physical Review B, 2007, 75, .	1.1	22
107	Spectral dependence of nonlinear absorption in ordered silver metallic nanoprism arrays. Scientific Reports, 2017, 7, 5307.	1.6	22
108	Influence of post-implantation thermal and laser annealing on the stability of metalâ€“alloy nanoclusters in silica. Nuclear Instruments & Methods in Physics Research B, 2001, 175-177, 410-416.	0.6	21

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109	On the optical absorption and nonlinearity of silica films containing metal nanoparticles. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2002, 82, 735-744.	0.6	21
110	Synthesis of wide band gap nanocrystals by ion implantation. Nuclear Instruments & Methods in Physics Research B, 2002, 191, 447-451.	0.6	21
111	Metal nanoparticlesâ€“silica composites: Z-scan determination of non-linear refractive index. Journal of Non-Crystalline Solids, 2003, 322, 300-305.	1.5	21
112	Dichroic nonlinear absorption response of silver nanoprism arrays. RSC Advances, 2017, 7, 17741-17747.	1.7	21
113	Circular Dichroism in Low-Cost Plasmonics: 2D Arrays of Nanoholes in Silver. Applied Sciences (Switzerland), 2020, 10, 1316.	1.3	21
114	Fluence and current density dependence of silver nanocluster dimensions in ion-implanted fused silica. Journal of Materials Chemistry, 1998, 8, 457-461.	6.7	20
115	Implantation damage effects on the Er³⁺luminescence in silica. Optics Express, 2012, 20, 16639.	1.7	20
116	Tuning ZnO nanorods photoluminescence through atmospheric plasma treatments. APL Materials, 2019, 7, .	2.2	20
117	Thermal behavior of indium nanoclusters in ion-implanted silica. Physical Review B, 2004, 70, .	1.1	19
118	Magnetic properties of Coâ€“Cu nanoparticles dispersed in silica matrix. Journal of Magnetism and Magnetic Materials, 2005, 290-291, 187-190.	1.0	19
119	Au and NiO nanocrystals doped into porous solâ€“gel SiO2films and the effect on optical CO detection. Nanotechnology, 2006, 17, 2429-2433.	1.3	19
120	Nanostructural and optical properties of cobalt and nickelâ€“oxide/silica nanocomposites. Materials Science and Engineering C, 2006, 26, 987-991.	3.8	19
121	Nanopatterning of silica with mask-assisted ion implantation. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 3211-3214.	0.6	19
122	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
123	Interatomic Coupling of Au Molecular Clusters and Er³⁺ Ions in Silica. ACS Photonics, 2015, 2, 96-104.	3.2	19
124	Formation of amorphous silicide nanoclusters in chromiumâ€•and titaniumâ€•implanted silica. Applied Physics Letters, 1995, 67, 2884-2886.	1.5	18
125	Structure and magnetic properties of alloy-based nanoparticles silica composites prepared by ion-implantation and solâ€“gel techniques. Materials Science and Engineering C, 2001, 15, 59-61.	3.8	18
126	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

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127	On the optical absorption and nonlinearity of silica films containing metal nanoparticles. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2002, 82, 735-744.	0.6	18
128	Silver cluster formation in ion-exchanged waveguides: processing technique and phenomenological model. Journal of Non-Crystalline Solids, 1999, 253, 261-267.	1.5	17
129	De-alloying behaviour of metal nanoclusters in SiO2 upon irradiation and thermal treatments. Journal of Non-Crystalline Solids, 2003, 322, 17-21.	1.5	17
130	Sensitizing effects in Ag-Er codoped glasses for optical amplification. , 2004, 5451, 311.		17
131	HiPIMS deposition of TiOx 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
132	All-Dielectric Silicon Nanoslots for <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:msup><mml:mi>Er</mml:mi><mml:mrow><mml:mn>3</mml:mn><mml:mo>+</mml:mo></mml:mrow></mml: Photoluminescence Enhancement. Physical Review Applied, 2020, 14, .	1.5	17
133	Chiral effects in low-cost plasmonic arrays of elliptic nanoholes. Optical and Quantum Electronics, 2020, 52, 1.	1.5	17
134	Atomic environment of Fe following high-temperature implantation in InP. Physical Review B, 2003, 68, .	1.1	16
135	Hybrid organicâ€“inorganic ZnS-loaded nanocomposite films for stable optical coatings. Thin Solid Films, 2010, 518, 6781-6786.	0.8	16
136	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
137	Rich Near-Infrared Chiral Behavior in Diffractive Metasurfaces. Physical Review Applied, 2021, 16, .	1.5	16
138	Diffracted Beams from Metasurfaces: High Chiral Detectivity by Photothermal Deflection Technique. Advanced Optical Materials, 2021, 9, 2100670.	3.6	16
139	Size dependent hcp-to-fcc transition temperature in Co nanoclusters obtained by ion implantation in silica. Nuclear Instruments & Methods in Physics Research B, 2006, 250, 206-209.	0.6	15
140	Structure and thermal stability of Auâ€“Fe alloy nanoclusters formed by sequential ion implantation in silica. Nuclear Instruments & Methods in Physics Research B, 2006, 250, 225-228.	0.6	15
141	Mutually reactive elements in a glass host matrix: Ag and S ion implantation in silica. Journal of Materials Research, 1999, 14, 2449-2457.	1.2	14
142	Towards controllable optical properties of silicon based nanoparticles for applications in opto-electronics. Optical Materials, 2005, 27, 1014-1019.	1.7	14
143	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
144	Diffractive dipolar coupling in non-Bravais plasmonic lattices. Nanoscale Advances, 2020, 2, 1261-1268.	2.2	14

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145	Title is missing!. European Physical Journal B, 2002, 25, 11-17.	0.6	14
146	Nanostructure and magnetic properties of CoNi-alloy-based nanoparticles dispersed in a silica matrix. Journal of Magnetism and Magnetic Materials, 2001, 226-230, 1912-1914.	1.0	13
147	Sequential ion implantation of copper and cobalt in silica glass: A study by synchrotron radiation techniques. Nuclear Instruments & Methods in Physics Research B, 2002, 191, 406-410.	0.6	13
148	Optical sensing to organic vapors of fluorinated polyimide nanocomposites containing silver nanoclusters. Sensors and Actuators B: Chemical, 2006, 118, 418-424.	4.0	13
149	Synthesis by co-sputtering of Auâ€“Cu alloy nanoclusters in silica. Journal of Non-Crystalline Solids, 2007, 353, 697-702.	1.5	13
150	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
151	Nanostructure, composition and magnetic properties in soft and hard Coâ€“Ni nanoparticles: The effect on the magnetic anisotropy. Inorganica Chimica Acta, 2008, 361, 4138-4142.	1.2	13
152	Direct evidence by positron annihilation spectroscopy of defect distributions deeper thanR_pin Ar⁺implanted silica glass. Journal Physics D: Applied Physics, 2009, 42, 115418.	1.3	13
153	Study of the energy transfer mechanism in different glasses co-doped with Si nanoaggregates and Er3+ ions. Optical Materials, 2005, 27, 904-909.	1.7	12
154	Modification of composition and structure of bimetallic nanocluster in silica by ion beam irradiation. Nuclear Instruments & Methods in Physics Research B, 2005, 240, 128-132.	0.6	12
155	Formation of silver nanoclusters in transparent polyimides by Ag-K ion-exchange process. European Physical Journal D, 2007, 42, 243-251.	0.6	12
156	Size-dependent oxidation in ZnO nanoparticles embedded in ion-implanted silica. Journal of Applied Physics, 2008, 104, 093505.	1.1	12
157	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
158	Magnetic Hysteresis in Nanocomposite Films Consisting of a Ferromagnetic AuCo Alloy and Ultrafine Co Particles. Materials, 2017, 10, 717.	1.3	12
159	Control of Au nanoantenna emission enhancement of magnetic dipolar emitters by means of VO₂ phase change layers. Optics Express, 2019, 27, 24260.	1.7	12
160	Metal nanocluster formation in silica films prepared by rf-sputtering: an experimental study. European Physical Journal B, 2002, 25, 11-17.	0.6	11
161	Some aspects of ion implantation technique in nanostructured materials. Physica Status Solidi (A) Applications and Materials Science, 2007, 204, 621-630.	0.8	11
162	Self-Assembled Mesoporous Silicaâ^'Germania Films. Chemistry of Materials, 2008, 20, 3259-3265.	3.2	11

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163	SiO2 mesoporous thin films containing Ag and NiO nanoparticles synthesized combining solâ€“gel and impregnation techniques. Materials Chemistry and Physics, 2011, 131, 313-319.	2.0	11
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