

Rosalia Serna

List of Publications by Year in descending order

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210
papers

3,645
citations

145106

33
h-index

206121

51
g-index

212
all docs

212
docs citations

212
times ranked

3554
citing authors

#	ARTICLE	IF	CITATIONS
1	Transparent high conductive Titanium oxynitride nanofilms obtained by nucleation control for sustainable optoelectronics. Applied Surface Science, 2022, 574, 151631.	3.1	7
2	Nanosecond Laser Switching of Phase-Change Random Metasurfaces with Tunable ON-State. Advanced Optical Materials, 2022, 10, 2101405.	3.6	4
3	Enhanced Light Absorption in All-Polymer Biomimetic Photonic Structures by Near-Zero-Index Organic Matter. Advanced Functional Materials, 2022, 32, .	7.8	8
4	Pulsed laser deposition and structural evolution of BaF2 nanolayers in Eu-doped BaF2/Al2O3 layered optical nanocomposite thin films. Thin Solid Films, 2022, , 139298.	0.8	0
5	(Invited) Nanocrystalline Oxide-Based Luminescent Nanophotonic Structures. ECS Meeting Abstracts, 2022, MA2022-01, 1095-1095.	0.0	0
6	Form Birefringence in Resonant Transducers for the Selective Monitoring of VOCs under Ambient Conditions. ACS Applied Materials & Interfaces, 2021, 13, 19148-19158.	4.0	1
7	Competition Effects during Femtosecond Laser Induced Element Redistribution in Ba- and La-Migration Based Laser Written Waveguides. Materials, 2021, 14, 3185.	1.3	3
8	Toward white light emission from plasmonic-luminescent hybrid nanostructures. Nanophotonics, 2021, 10, 3995-4007.	2.9	2
9	Bismuth-based gap-plasmon metasurfaces for visible photonics with volatile tuning potential. , 2021, , .		0
10	Optical properties of differing nanolayered structures of divalent europium doped barium fluoride thin films synthesized by pulsed laser deposition. Optical Materials, 2021, 122, 111796.	1.7	0
11	Self-Assembled, 10 nm-Tailored, Near Infrared Plasmonic Metasurface Acting as Broadband Omnidirectional Polarizing Mirror. Advanced Optical Materials, 2020, 8, 2000321.	3.6	5
12	Photoluminescence and Stoichiometry Correlation in Nanocrystalline EuOx Thin Films: Tunable Color Emission. Journal of Physical Chemistry C, 2020, 124, 15434-15439.	1.5	12
13	Role of the La/K Compositional Ratio in the Properties of Waveguides Written by Fs-Laser Induced Element Redistribution in Phosphate-Based Glasses. Materials, 2020, 13, 1275.	1.3	6
14	Spectroscopic ellipsometry study of Cu2ZnSn(SxSe1-x)4 bulk polycrystals. Journal of Alloys and Compounds, 2020, 843, 156013.	2.8	2
15	Optical-Based Thickness Measurement of MoO3 Nanosheets. Nanomaterials, 2020, 10, 1272.	1.9	12
16	Deep UV laser induced periodic surface structures on silicon formed by self-organization of nanoparticles. Applied Surface Science, 2020, 520, 146307.	3.1	10
17	Active analog tuning of the phase of light in the visible regime by bismuth-based metamaterials. Nanophotonics, 2020, 9, 885-896.	2.9	9
18	(Invited) Oxide-Based Luminescent and Active Nanophotonic Structures. ECS Meeting Abstracts, 2020, MA2020-01, 1083-1083.	0.0	0

#	ARTICLE	IF	CITATIONS
19	Tuning the period of femtosecond laser induced surface structures in steel: From angled incidence to quill writing. <i>Applied Surface Science</i> , 2019, 493, 948-955.	3.1	31
20	Ellipsometric characterization of Bi and Al ₂ O ₃ coatings for plasmon excitation in an optical fiber sensor. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2019, 37, .	0.6	2
21	Influence of the Zn plasma kinetics on the structural and optical properties of ZnO thin films grown by PLD. <i>SN Applied Sciences</i> , 2019, 1, 1.	1.5	10
22	Nanosecond laser-induced interference grating formation on silicon. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 225302.	1.3	11
23	Tailoring metal-dielectric nanocomposite materials with ultrashort laser pulses for dichroic color control. <i>Nanoscale</i> , 2019, 11, 18779-18789.	2.8	16
24	Liquid switchable radial polarization converters made of sculptured thin films. <i>Applied Surface Science</i> , 2019, 475, 230-236.	3.1	3
25	Conformal covering and optical response of pulsed laser deposited bidimensional Ag nanoparticle arrays. <i>Applied Surface Science</i> , 2019, 473, 442-448.	3.1	2
26	Optical properties of bismuth nanostructures towards the ultrathin film regime. <i>Optical Materials Express</i> , 2019, 9, 2924.	1.6	17
27	Design and Production of Femtosecond Laser Writable Borate-based Glasses for Photonic Devices. , 2019, , .		0
28	Spectroscopic ellipsometry study of Cu ₂ ZnSnS ₄ bulk poly-crystals. <i>Applied Physics Letters</i> , 2018, 112, 161901.	1.5	6
29	Strain-tuning of the optical properties of semiconductor nanomaterials by integration onto piezoelectric actuators. <i>Semiconductor Science and Technology</i> , 2018, 33, 013001.	1.0	58
30	Self-Assembled Nanostructured Photonic-Plasmonic Metasurfaces for High-Resolution Optical Thermometry. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800241.	1.9	9
31	Memristive behaviour of Si-Al oxynitride thin films: the role of oxygen and nitrogen vacancies in the electroforming process. <i>Nanotechnology</i> , 2018, 29, 235702.	1.3	11
32	Evidencing early pyrochlore formation in rare-earth doped TiO ₂ nanocrystals: Structure sensing via VIS and NIR Er ³⁺ light emission. <i>Journal of Alloys and Compounds</i> , 2018, 735, 2267-2274.	2.8	8
33	White Cathodoluminescence Emission from Eu-Doped SiAlON Thin Films. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1800260.	0.8	3
34	Imaging Ellipsometry Determination of the Refractive Index Contrast and Dispersion of Channel Waveguides Inscribed by fs-Laser Induced Ion-Migration. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1800258.	0.8	6
35	Europium monoxide nanocrystalline thin films with high near-infrared transparency. <i>Applied Surface Science</i> , 2018, 456, 980-984.	3.1	12
36	Femtosecond laser writing of photonic devices in borate glasses compositionally designed to be laser writable. <i>Optics Letters</i> , 2018, 43, 2523.	1.7	17

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37	Effects of dielectric stoichiometry on the photoluminescence properties of encapsulated WSe ₂ monolayers. Nano Research, 2018, 11, 1399-1414.	5.8	12
38	Mid-to-far infrared tunable perfect absorption by a sub- $\lambda/100$ nanofilm in a fractal phasor resonant cavity. Optics Express, 2018, 26, 34043.	1.7	24
39	(Invited) Light on EuOx Nanostructured Films. ECS Meeting Abstracts, 2018, , .	0.0	0
40	Unveiling the Far Infrared-to-Ultraviolet Optical Properties of Bismuth for Applications in Plasmonics and Nanophotonics. Journal of Physical Chemistry C, 2017, 121, 3511-3521.	1.5	61
41	Multifunctional ZnO/Fe-O and graphene oxide nanocomposites: Enhancement of optical and magnetic properties. Journal of the European Ceramic Society, 2017, 37, 3747-3758.	2.8	8
42	SiGe layer thickness effect on the structural and optical properties of well-organized SiGe/SiO ₂ multilayers. Nanotechnology, 2017, 28, 345701.	1.3	5
43	Structure-property relationships for Eu doped TiO ₂ thin films grown by a laser assisted technique from colloidal sols. RSC Advances, 2017, 7, 37643-37653.	1.7	32
44	Preparation and broadband white emission of Eu-doped thin films based on SiAlON. Journal of Luminescence, 2017, 191, 97-101.	1.5	10
45	Interband transitions in semi-metals, semiconductors, and topological insulators: a new driving force for plasmonics and nanophotonics [Invited]. Optical Materials Express, 2017, 7, 2299.	1.6	74
46	Vapor and liquid optical monitoring with sculptured Bragg microcavities. Journal of Nanophotonics, 2017, 11, 1.	0.4	5
47	Ultraviolet-visible interband plasmonics with p-block elements. Optical Materials Express, 2016, 6, 2434.	1.6	28
48	Polaritonic-to-Plasmonic Transition in Optically Resonant Bismuth Nanospheres for High-Contrast Switchable Ultraviolet Meta-Filters. IEEE Photonics Journal, 2016, 8, 1-11.	1.0	20
49	Modeling of the refractive index and composition of luminescent nanometric chlorinated-silicon nitride films with embedded Si-quantum dots. Journal of Applied Physics, 2016, 120, 145305.	1.1	6
50	Optical Tuning of Nanospheres Through Phase Transition: An Optical Nanocircuit Analysis. IEEE Photonics Technology Letters, 2016, 28, 2878-2881.	1.3	2
51	Optofluidic Modulation of Self-Associated Nanostructural Units Forming Planar Bragg Microcavities. ACS Nano, 2016, 10, 1256-1264.	7.3	27
52	Wide band-gap tuning Cu ₂ ZnSn _{1-x} GexS ₄ single crystals: Optical and vibrational properties. Solar Energy Materials and Solar Cells, 2016, 158, 147-153.	3.0	44
53	Tuning Eu ³⁺ emission in europium sesquioxide films by changing the crystalline phase. Applied Surface Science, 2016, 374, 71-76.	3.1	14
54	(Invited) Luminescent Rare-Earth Doped Thin Film Nanostructures As Building Blocks for Nanophotonic and Lighting Applications. ECS Meeting Abstracts, 2016, , .	0.0	0

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55	Thermo-optical properties of Bi nanoparticles embedded in germanate glasses and alumina thin films. <i>Ceramics International</i> , 2015, 41, 8216-8222.	2.3	11
56	Rare Earth-Ion/Nanosilicon Ultrathin Layer: A Versatile Nanohybrid Light-Emitting Building Block for Active Optical Metamaterials. <i>Journal of Physical Chemistry C</i> , 2015, 119, 11800-11808.	1.5	3
57	All-Optical Nanometric Switch Based on the Directional Scattering of Semiconductor Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2015, 119, 19558-19564.	1.5	28
58	Optical performance of thin films produced by the pulsed laser deposition of SiAlON and Er targets. <i>Applied Surface Science</i> , 2015, 336, 274-277.	3.1	6
59	Annealing Effect on the Structural and Optical Properties of Sputter-Grown Bismuth Titanium Oxide Thin Films. <i>Materials</i> , 2014, 7, 3427-3434.	1.3	7
60	Potential of bismuth nanoparticles embedded in a glass matrix for spectral-selective thermo-optical devices. <i>Applied Physics Letters</i> , 2014, 105, 113102.	1.5	22
61	Size-controlled Ge nanostructures for enhanced Er ³⁺ light emission. <i>Optics Letters</i> , 2014, 39, 4691.	1.7	3
62	TiO ₂ /Eu ³⁺ Thin Films with High Photoluminescence Emission Prepared by Electrophoretic Deposition from Nanoparticulate Sols. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 5152-5159.	1.0	14
63	Spectroscopic ellipsometry study of Cu ₂ ZnSnSe ₄ bulk crystals. <i>Applied Physics Letters</i> , 2014, 105, 061909.	1.5	26
64	Band-gap engineering of Cu ₂ ZnSn _{1-x} Ge _x S ₄ single crystals and influence of the surface properties. <i>Acta Materialia</i> , 2014, 79, 181-187.	3.8	37
65	Evolution of the optical reflectivity of a monolayer of nanoparticles during its growth on a dielectric thin film. <i>Applied Physics A: Materials Science and Processing</i> , 2013, 110, 757-764.	1.1	4
66	A shadowed off-axis production of Ge nanoparticles in Ar gas atmosphere by pulsed laser deposition. <i>Applied Physics A: Materials Science and Processing</i> , 2013, 110, 585-590.	1.1	7
67	Optical studies of amorphous Ge nanostructures in Al ₂ O ₃ produced by pulsed laser deposition. <i>Thin Solid Films</i> , 2013, 541, 92-96.	0.8	2
68	Spectroscopic ellipsometry study of Cu ₂ ZnGeSe ₄ and Cu ₂ ZnSiSe ₄ poly-crystals. <i>Materials Chemistry and Physics</i> , 2013, 141, 58-62.	2.0	43
69	Characterization of Cu ₂ SnSe ₃ by spectroscopic ellipsometry. <i>Thin Solid Films</i> , 2013, 535, 384-386.	0.8	4
70	Electrophoretic Deposition of TiO ₂ /Er ³⁺ Nanoparticulate Sols. <i>Journal of Physical Chemistry B</i> , 2013, 117, 1556-1562.	1.2	17
71	Role of target conditioning on the thermo-optical response of bismuth nanostructures produced by pulsed laser deposition. <i>Applied Physics A: Materials Science and Processing</i> , 2013, 110, 863-867.	1.1	3
72	(Invited) Exploring the Potential of Si and Ge Amorphous Nanostructures for Photonic Applications. <i>ECS Transactions</i> , 2013, 53, 17-29.	0.3	0

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73	Nano Focus: Colloidal quantum dot films show RGB lasing. MRS Bulletin, 2012, 37, 626-627.	1.7	0
74	Exploring the Optical Potential of Nano-Bismuth: Tunable Surface Plasmon Resonances in the Near Ultraviolet-to-Near Infrared Range. Journal of Physical Chemistry C, 2012, 116, 20530-20539.	1.5	182
75	Determination of the dielectric function of MnIn ₂ S ₄ single crystals by spectroscopic ellipsometry. Journal of Physics and Chemistry of Solids, 2012, 73, 720-723.	1.9	2
76	Er ³⁺ /Pr ³⁺ co-doped fluorophosphate glass shows emission at 2.7 μ m promising for solid-state laser development. MRS Bulletin, 2011, 36, 240-242.	1.7	0
77	Comparative study of tetragonal Cu ₂ In ₇ Se _{11.5} and trigonal CuIn ₅ Se ₈ by spectroscopic ellipsometry. Materials Chemistry and Physics, 2011, 125, 77-81.	2.0	3
78	Thermo-optical response of layered Bi nanostructures produced by pulsed laser deposition. Applied Surface Science, 2011, 257, 5172-5174.	3.1	5
79	Enhanced photoluminescence of rare-earth doped films prepared by off-axis pulsed laser deposition. Applied Surface Science, 2011, 257, 5204-5207.	3.1	8
80	Si nanoparticle- Er^{3+} coupling through contact in as-deposited nanostructured films. Applied Physics Letters, 2011, 98, 151109.	1.5	8
81	Mesoporous Silica Nanoparticles Facilitate Antireflective Coating Applications. MRS Bulletin, 2010, 35, 112-112.	1.7	2
82	Broadband infrared emission of erbium-thulium-codoped calcium borosilicate glasses. Applied Physics B: Lasers and Optics, 2010, 99, 263-270.	1.1	15
83	Enhanced photoluminescence response of Er ³⁺ -Si nanoparticle codoped Al ₂ O ₃ films by controlled synthesis in the nanoscale and thermal processing. Thin Solid Films, 2010, 518, 4644-4647.	0.8	0
84	Optical constants of Cu ₂ ZnGeS ₄ bulk crystals. Journal of Applied Physics, 2010, 108, .	1.1	60
85	(Invited) Nanostructuring the Er ³⁺ and Si Nanoparticle Distributions to Enhance the 1.5 μ m Emission in Codoped Al ₂ O ₃ Thin Films. ECS Transactions, 2010, 28, 229-239.	0.3	2
86	Flat-On Lamellae in Spin-Coated, Stable Films of Poly(propylene azelate). Langmuir, 2010, 26, 17540-17545.	1.6	11
87	Tuning the Er ³⁺ sensitization by Si nanoparticles in nanostructured as-grown Al ₂ O ₃ films. Journal of Applied Physics, 2009, 105, .	1.1	19
88	Ho ³⁺ -Doped Nanophase Glass Ceramics Enhance Efficiency of Si Solar Cells. MRS Bulletin, 2009, 34, 76-76.	1.7	0
89	Dielectric functions of CuIn _{1+2n} Se _{2+3n} and CuGa _{1+2n} Se _{2+3n} (n = 2.5, 3.0, 3.5). Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 1074-1077.	0.8	0
90	Characterisation of Cu(In _{1-x} Ga _x) ₅ Se ₈ by spectroscopic ellipsometry. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 1078-1081.	0.8	5

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91	Grafting of Poly(acrylic acid) onto an Aluminum Surface. Langmuir, 2009, 25, 9094-9100.	1.6	16
92	Size-dependent thermo-optical properties of embedded Bi nanostructures. Nanotechnology, 2009, 20, 199801-199801.	1.3	0
93	Enhanced photoluminescence of nanostructured Er ³⁺ -doped a-Si/a-Al ₂ O ₃ thin films prepared by PLD. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2008, 146, 141-145.	1.7	4
94	Dielectric functions and optical constants modeling for CuIn ₃ Se ₅ and CuIn ₅ Se ₈ . Journal of Applied Physics, 2008, 103, .	1.1	18
95	Critical separation for efficient Tm ³⁺ -Tm ³⁺ energy transfer evidenced in nanostructured Tm ³⁺ :Al ₂ O ₃ thin films. Optics Letters, 2008, 33, 608.	1.7	19
96	Size-dependent thermo-optical properties of embedded Bi nanostructures. Nanotechnology, 2008, 19, 485708.	1.3	20
97	a-Si nanolayer induced enhancement of the 1.53 μ m photoluminescence in Er ³⁺ doped a-Al ₂ O ₃ thin films. Applied Physics Letters, 2008, 92, 121111.	1.5	11
98	Analysis of the optical properties of Cu(In _{1-x} Gax) ₃ Se ₅ crystals. Journal of Applied Physics, 2008, 104, 093507.	1.1	3
99	Metallodielectric Multilayer Stacks Show Enhanced Ultrafast Optical Nonlinear Response. MRS Bulletin, 2008, 33, 4-4.	1.7	0
100	Modeling the optical constants of Cu ₂ In ₄ Se ₇ and CuGa ₃ Se ₅ crystals. Journal of Applied Physics, 2007, 101, 013524.	1.1	15
101	Er ³⁺ luminescence sensitization by Si-nanoparticles in Al ₂ O ₃ :Er ³⁺ thin films with a controlled nanoscale dopant distribution. , 2007, , .		0
102	Integrated Optical Device Fabricated from KY(WO ₄) ₂ . MRS Bulletin, 2007, 32, 303-303.	1.7	0
103	Stacking of Main Chain-Crown Ether Polymers in Thin Films. Langmuir, 2007, 23, 12677-12681.	1.6	22
104	Optical constants of CuGa ₅ Se ₈ crystals. Journal of Applied Physics, 2007, 102, .	1.1	8
105	Broadband emission in Er-Tm codoped Al ₂ O ₃ films: The role of energy transfer from Er to Tm. Journal of Applied Physics, 2007, 101, 033112.	1.1	26
106	Dielectric functions and fundamental band gaps of Cu ₂ In ₄ Se ₇ , CuGa ₃ Se ₅ and CuGa ₅ Se ₈ crystals. Journal Physics D: Applied Physics, 2007, 40, 740-748.	1.3	21
107	Pulsed Laser Deposition for Functional Optical Films. , 2007, , 315-338.		5
108	Improving the photoluminescence response of Er-Tm: Al ₂ O ₃ films by Yb codoping. Journal of Luminescence, 2007, 122-123, 32-35.	1.5	6

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109	Vanadium-doped Al ₂ O ₃ nanostructured thin films prepared by pulsed laser deposition: Optical switching. Applied Surface Science, 2007, 253, 8136-8140.	3.1	2
110	The role of the laser fluence on the Al ₂ O ₃ target in the nanostructure and morphology of VO _x :Al ₂ O ₃ thin films prepared by pulsed laser deposition. Applied Surface Science, 2007, 254, 1316-1321.	3.1	3
111	Optical activation of Er ³⁺ in Al ₂ O ₃ during pulsed laser deposition. Optical Materials, 2007, 29, 539-542.	1.7	12
112	Optical evidence for reactive processes when embedding Cu nanoparticles in Al ₂ O ₃ by pulsed laser deposition. Nanotechnology, 2006, 17, 4588-4593.	1.3	34
113	Advanced nanostructured materials for integrated optics. , 2006, , .		0
114	3D Nanostructures in Hydrogen Silsesquioxane Achieved by Proton Beam Writing. MRS Bulletin, 2006, 31, 367-368.	1.7	0
115	Optical characterization of CuIn ₃ Se ₅ , CuGa ₃ Se ₅ and CuGa ₅ Se ₈ crystals by spectroscopic ellipsometry. Physica Status Solidi (A) Applications and Materials Science, 2006, 203, 2913-2918.	0.8	11
116	Metal-Dielectric Nanocomposites Produced by Pulsed Laser Deposition. , 2006, , 37-74.		0
117	Far-Field Raman Scattering Reveals Surface Plasmons of Gold Nanoparticle Arrays. MRS Bulletin, 2005, 30, 156-159.	1.7	0
118	Improving the photoluminescence of thin films by nanostructuring the rare-earth ion distribution. Applied Surface Science, 2005, 247, 8-17.	3.1	11
119	Tm-Er Codoping Al ₂ O ₃ Thin Films: Activation by Annealing. Materials Research Society Symposia Proceedings, 2005, 866, 149.	0.1	1
120	Thermally driven optical switching in Bi nanostructures. Nanotechnology, 2005, 16, 3142-3145.	1.3	15
121	Resputtering and morphological changes of Au nanoparticles in nanocomposites as a function of the deposition conditions of the oxide capping layer. Nanotechnology, 2005, 16, 718-723.	1.3	17
122	Continuous-Wave 1.94 μ m Laser Based on Tm:BaY ₂ F ₈ Lasers from 1849 nm to 2059 nm. MRS Bulletin, 2005, 30, 421-422.	1.7	0
123	Broadband infrared emission from Er-doped Tm:Al ₂ O ₃ thin films. Applied Physics Letters, 2005, 87, 1111-1103.	1.5	26
124	Optical properties and electronic structure of polycrystalline Ag _{1-x} Cu _x InSe ₂ alloys. Journal of Applied Physics, 2005, 97, 1035-1515.	1.1	38
125	Nanostructuring the Er-doped Yb distribution to improve the photoluminescence response of thin films. Applied Physics Letters, 2004, 84, 2151-2153.	1.5	44
126	Hysteresis in the melting kinetics of Bi nanoparticles. Thin Solid Films, 2004, 453-454, 467-470.	0.8	16

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127	Structural and thermal properties of a Bi nano-plane embedded in amorphous germanium. Applied Physics A: Materials Science and Processing, 2004, 79, 1299-1302.	1.1	4
128	Evidence for self-sputtering during pulsed laser deposition of Zn. Applied Physics A: Materials Science and Processing, 2004, 79, 915-918.	1.1	7
129	Large-Scale Synthesis of Nearly Monodisperse Au and Ag Nanoparticles Achieved. MRS Bulletin, 2004, 29, 607-608.	1.7	0
130	Tandem OLEDs Deliver High Luminous Efficiency. MRS Bulletin, 2004, 29, 6-6.	1.7	6
131	Damage Threshold of Extreme-Ultraviolet Multilayer Mirrors Measured. MRS Bulletin, 2004, 29, 225-225.	1.7	0
132	Controlling the transmission at the surface plasmon resonance of nanocomposite films using photonic structures. Applied Physics Letters, 2003, 83, 1842-1844.	1.5	20
133	Morphological and interaction effects on the surface plasmon resonance of metal nanoparticles. Journal of Physics Condensed Matter, 2003, 15, S3001-S3010.	0.7	27
134	Evidence for shallow implantation during the growth of bismuth nanocrystals by pulsed laser deposition. Journal of Applied Physics, 2003, 93, 6396-6398.	1.1	19
135	Time resolved dynamics of rapid melting and resolidification of Sb thin films under ns and ps laser pulse irradiation. Journal of Applied Physics, 2003, 94, 4961.	1.1	6
136	Shock-Wave Modulation of the Dielectric Constant of Photonic Crystals Produces Optical Phenomena. MRS Bulletin, 2003, 28, 549-550.	1.7	0
137	Ellipsometry Achieves Determination of Optical Constants and Crystal Orientation for Biaxial Absorbing Materials. MRS Bulletin, 2003, 28, 157-157.	1.7	0
138	The Shallow Implantation of Bismuth During the Growth of Bismuth Nanocrystals in Al ₂ O ₃ by Pulsed Laser Deposition. Materials Research Society Symposia Proceedings, 2003, 780, 121.	0.1	5
139	Structural studies of Ag nanocrystals embedded in amorphous Al ₂ O ₃ grown by pulsed laser deposition. Nanotechnology, 2002, 13, 465-470.	1.3	63
140	Structure and thermal stability of Fe : Al ₂ O ₃ nanocomposite films. Journal Physics D: Applied Physics, 2002, 35, 916-922.	1.3	10
141	Glass-Ceramic Materials to Provide Broad-Band Light Sources. MRS Bulletin, 2002, 27, 664-664.	1.7	0
142	Optical and magneto-optical properties of Fe nanoparticles. Physical Review B, 2002, 65, .	1.1	48
143	Effect of oxygen pressure on the optical and structural properties of Cu:Al ₂ O ₃ nanocomposite films. Physical Review B, 2002, 66, .	1.1	22
144	Refractive index of Ag nanocrystals composite films in the neighborhood of the surface plasmon resonance. Journal of Applied Physics, 2002, 91, 1536-1541.	1.1	32

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145	Magnetic behavior of Fe:Al ₂ O ₃ nanocomposite films produced by pulsed laser deposition. Journal of Applied Physics, 2001, 90, 6268-6274.	1.1	46
146	Photoluminescence performance of pulsed-laser deposited Al ₂ O ₃ thin films with large erbium concentrations. Journal of Applied Physics, 2001, 90, 5120-5125.	1.1	37
147	Anomalous dispersion in nanocomposite films at the surface plasmon resonance. Applied Physics B: Lasers and Optics, 2001, 73, 339-343.	1.1	9
148	Structural studies of pulsed-laser deposited nanocomposite metal-oxide films. Journal of Microscopy, 2001, 201, 250-255.	0.8	16
149	Magneto-optical response of isolated and embedded Fe nanoparticles. IEEE Transactions on Magnetics, 2001, 37, 1416-1418.	1.2	4
150	Quantitative optical determination of the shape of Cu nanocrystals in a composite film. Journal of Applied Physics, 2001, 89, 5734-5738.	1.1	9
151	Low temperature Electron Cyclotron Resonance plasma technique for low loss integrated optics. Microelectronic Engineering, 2000, 53, 407-410.	1.1	2
152	Influence of the deposition parameters on the synthesis of nanocomposite materials produced by pulsed laser deposition. Applied Surface Science, 2000, 154-155, 449-453.	3.1	12
153	Influence of defects on the photoluminescence of pulsed-laser deposited Er-doped amorphous Al ₂ O ₃ films. Nuclear Instruments & Methods in Physics Research B, 2000, 166-167, 793-797.	0.6	36
154	Artificially nanostructured Cu:Al ₂ O ₃ films produced by pulsed laser deposition. Applied Physics A: Materials Science and Processing, 2000, 71, 583-586.	1.1	26
155	Delayed release of Li atoms from laser ablated lithium niobate. Applied Physics Letters, 2000, 76, 649-651.	1.5	18
156	Size effects investigated by Raman spectroscopy in Bi nanocrystals. Physical Review B, 1999, 60, 10080-10085.	1.1	69
157	The role of Er ³⁺ separation on the luminescence of Er ³⁺ -doped Al ₂ O ₃ films prepared by pulsed laser deposition. Applied Physics Letters, 1999, 75, 4073-4075.	1.5	34
158	Size, shape anisotropy, and distribution of Cu nanocrystals prepared by pulsed laser deposition. Applied Surface Science, 1999, 138-139, 1-5.	3.1	37
159	Vacuum versus gas environment for the synthesis of nanocomposite films by pulsed-laser deposition. Applied Physics A: Materials Science and Processing, 1999, 69, S201-S207.	1.1	14
160	Critical parameters influencing the material distribution produced by pulsed laser deposition. Applied Physics A: Materials Science and Processing, 1999, 69, S553-S556.	1.1	3
161	Crystallisation of thin Bi/Ge films: role of Bi crystal size. Journal of Magnetism and Magnetic Materials, 1999, 198-199, 749-751.	1.0	1
162	Vacuum versus gas environment for the synthesis of nanocomposite films by pulsed-laser deposition. Applied Physics A: Materials Science and Processing, 1999, 69, S201-S207.	1.1	34

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163	Nanocrystal size dependence of the third-order nonlinear optical response of Cu:Al ₂ O ₃ thin films. Applied Physics Letters, 1999, 74, 2791-2793.	1.5	69
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