Mariana Sendova

List of Publications by Year
in descending order

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65	926	516710 16	552781 26
papers	citations	h-index	g-index

67	67	67	789
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Laserâ€induced subâ€halfâ€micrometer periodic structure on polymer surfaces. Applied Physics Letters, 1994, 64, 563-565.	3.3	72
2	Light-Induced Magnetization Changes in a Coordination Polymer Heterostructure of a Prussian Blue Analogue and a Hofmann-like Fe(II) Spin Crossover Compound. Journal of the American Chemical Society, 2014, 136, 9846-9849.	13.7	61
3	Magnetization of fast and slow oxidized cytochrome c oxidase. Biochemistry, 1993, 32, 7855-7860.	2.5	47
4	Micro-Raman spectroscopic study of pottery fragments from the Lapatsa tomb, Cyprus, ca 2500BC. Journal of Raman Spectroscopy, 2005, 36, 829-833.	2.5	39
5	Luminescence of trivalent samarium ions in silver and tin co-doped aluminophosphate glass. Optical Materials, 2011, 33, 1215-1220.	3.6	37
6	Evolution of the optical properties of a silver-doped phosphate glass during thermal treatment. Journal of Luminescence, 2011, 131, 535-538.	3.1	36
7	Laser-assisted sputtering of Pb1â^'x Cd x Se films. Journal of Materials Science Letters, 1986, 5, 533-536.	0.5	35
8	Supersaturation-Driven Optical Tuning of Ag Nanocomposite Glasses for Photonics: An In Situ Optical Microspectroscopy Study. Plasmonics, 2011, 6, 399-405.	3.4	30
9	In situ isothermal monitoring of the enhancement and quenching of Sm3+ photoluminescence in Ag co-doped glass. Solid State Communications, 2012, 152, 1786-1790.	1.9	30
10	Sub-Half-Micron Periodic Structures on Polymer Surfaces with Polarized Laser Irradiation. Japanese Journal of Applied Physics, 1993, 32, 6182-6184.	1.5	27
11	Kinetics of copper nanoparticle precipitation in phosphate glass: an isothermal plasmonic approach. Physical Chemistry Chemical Physics, 2015, 17, 1241-1246.	2.8	26
12	Plasmonic Coupling in Silver Nanocomposite Glasses. Journal of Physical Chemistry C, 2012, 116, 17764-17772.	3.1	25
13	Enhanced 1.53â€‰Î¼m emission of Er3+ ions in phosphate glass via energy transfer from Cu+ ions. Journal of Applied Physics, 2014, 116, .	2.5	25
14	Real-Time Monitoring of Plasmonic Evolution in Thick Ag:SiO2Films: Nanocomposite Optical Tuning. ACS Applied Materials & Interfaces, 2011, 3, 447-454.	8.0	22
15	In situ optical microspectroscopy of the growth and oxidation of silver nanoparticles in silica thin films on soda-lime glass. Materials Research Bulletin, 2011, 46, 158-165.	5.2	21
16	Rare earth-dependent trend of the glass transition activation energy of doped phosphate glasses: Calorimetric analysis. Journal of Non-Crystalline Solids, 2016, 450, 18-22.	3.1	18
17	Efficient Energy Transfer and Enhanced Nearâ€IR Emission in Cu⁺/Nd³⁺â€Activated Aluminophosphate Glass. Journal of the American Ceramic Society, 2015, 98, 3087-3093.	3.8	16
18	Enhanced UV transparency in phosphate glasses via multi-wall carbon nanotubes. Journal of Materials Chemistry C, 2016, 4, 9771-9778.	5.5	16

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19	Catalyst role of Nd3+ ions for the precipitation of silver nanoparticles in phosphate glass. Journal of Alloys and Compounds, 2017, 691, 44-50.	5.5	16
20	Diffusion activation energy of Ag in nanocomposite glasses determined by in situ monitoring of plasmon resonance evolution. Chemical Physics Letters, 2011, 503, 283-286.	2.6	15
21	In situ optical microspectroscopy approach for the study of metal transport in dielectrics via temperature- and time-dependent plasmonics: Ag nanoparticles in SiO2 films. Journal of Chemical Physics, 2011, 134, 054707.	3.0	15
22	Near-IR Photoluminescence of Pr/Cu/Sn Tridoped Phosphate Glass: Nonplasmonic Material System Versus Plasmonic Nanocomposite. Journal of Electronic Materials, 2015, 44, 1175-1180.	2.2	14
23	Near-UV sensitized 1.06ÂÎ¼m emission of Nd3+ ions via monovalent copper in phosphate glass. Materials Chemistry and Physics, 2015, 162, 425-430.	4.0	13
24	In situ spectroscopic determination of the activation energies for the growth of silver nanoparticles in silica nanofilms in nitrogen atmosphere. Solid State Communications, 2011, 151, 720-724.	1.9	12
25	Optical and electrical properties of laser-deposited Pb1âˆ’x Cd x Se films. Journal of Materials Science Letters, 1986, 5, 537-539.	0.5	11
26	Infrared absorption of laser deposited PbSe films. Journal of Physics C: Solid State Physics, 1987, 20, 941-951.	1.5	11
27	Temperatureâ€dependent, microâ€Raman spectroscopic study of barium titanate nanoparticles. Journal of Raman Spectroscopy, 2015, 46, 25-31.	2.5	11
28	Temperature dependence of Raman scattering in filled double-walled carbon nanotubes. Journal of Applied Physics, 2010, 108, 044309.	2.5	10
29	Revealing oxidation kinetics of dielectric-embedded Ag nanoparticles via in situ optical microspectroscopy. Chemical Physics Letters, 2012, 523, 107-112.	2.6	10
30	UV-stimulated near-IR emission of Pr 3+ in phosphate glass via twofold-coordinated Sn centers. Infrared Physics and Technology, 2014, 67, 359-362.	2.9	10
31	Excited-state dynamics and enhanced near-IR emission in Nd3+-structurally activated aluminophosphate glass containing silver and tin. Optical Materials, 2015, 46, 88-92.	3.6	10
32	Real-time analysis of the â€œplasmonic diluentâ€•effect: Probing Ag nanoparticle growth rate via Dy3+ photoluminescence quenching. Journal of Luminescence, 2015, 157, 275-279.	3.1	10
33	Thermal and spectroscopic characterization of copper and erbium containing aluminophosphate glass. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 226, 117546.	3.9	10
34	Geometric analysis of the calorimetric glass transition and fragility using constant cooling rate cycles. International Journal of Applied Glass Science, 2021, 12, 348-357.	2.0	10
35	Comparative micro-Raman spectroscopy study of tellurium-filled double-walled carbon nanotubes. Journal of Applied Physics, 2008, 103, .	2.5	9
36	Della Robbia blue glaze: microâ€Raman temperature study and Xâ€ray fluorescence spectroscopy characterization. Journal of Raman Spectroscopy, 2010, 41, 469-472.	2.5	9

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37	Tuning the electrical transport properties of double-walled carbon nanotubes by semiconductor and semi-metal filling. Journal of Applied Physics, 2011, 110, 123708.	2.5	9
38	Temperature dependent study of basal plane stacking faults in Ag:ZnO nanorods by Raman and photoluminescence spectroscopy. Materials Science in Semiconductor Processing, 2017, 69, 62-67.	4.0	9
39	Band gap analysis and correlation with glass structure in phosphate glasses melted with various allotropes of carbon. Chemical Physics, 2021, 547, 111207.	1.9	9
40	Laser-assisted deposition of lead salt films. Journal of Materials Science Letters, 1987, 6, 285-288.	0.5	8
41	Raman spectroscopic study of the size-dependent order parameter of barium titanate. Journal of Applied Physics, 2014, 115, 214104.	2.5	8
42	Raman spectroscopy of PbI2-filled double-walled carbon nanotubes. Journal of Applied Physics, 2005, 98, 104304.	2.5	7
43	Micro-Raman scattering of selenium-filled double-walled carbon nanotubes: Temperature study. Journal of Applied Physics, 2009, 105, 094312.	2.5	7
44	Sn centers-mediated enhancement of 1.53 Âµm emission of Er3+ ions in phosphate glass. Materials Letters, 2014, 131, 344-346.	2.6	7
45	Inâ€situ isothermal microâ€Raman spectroscopy reveals the activation energy of dehydration in Î±â€FeOOH. Journal of Raman Spectroscopy, 2017, 48, 618-622.	2.5	7
46	Kinetics of Ag nanoparticle growth in thick SiO2 films: An in situ optical assessment of Ostwald ripening. Materials Chemistry and Physics, 2012, 135, 282-286.	4.0	6
47	UV-sensitized Sm3+ visible and near-IR photoluminescence in phosphate glass melted with multi-wall carbon nanotubes. Journal of Non-Crystalline Solids, 2018, 498, 455-460.	3.1	6
48	Sub-1/4-ÂµmPeriodic Patterns with Nd:YAG Laser and Image Transfer to Silicon Surface by Reactive Ion Etching. Japanese Journal of Applied Physics, 1994, 33, 7135-7137.	1.5	5
49	Oxidation kinetics of plasmonic Ag particles in SiO2 nanofilms: Interlinking particle size to atmosphereâ€“filmâ€“substrate system properties. Journal of Physics and Chemistry of Solids, 2013, 74, 1487-1491.	4.0	5
50	Unfolding diffusion-based Ag nanoparticle growth in SiO2 nanofilms heat-treated in air via in situ optical microspectroscopy. Optical Materials, 2013, 35, 968-972.	3.6	5
51	Synergistic thermoâ€Raman and calorimetric kinetic study of the cation modifier's role in binary metaphosphate glasses. Journal of Raman Spectroscopy, 2018, 49, 1522-1528.	2.5	5
52	Surface kinetics analysis by direct area measurement: Laser assisted dehydration of Î±-FeOOH. AIP Advances, 2019, 9, .	1.3	5
53	Eu2+/Eu3+ activated phosphate glasses synthesized via melting with multi-wall carbon nanotubes. Optical Materials, 2020, 109, 110336.	3.6	5
54	Nanodiamond-induced UV transparency in phosphate glasses and development of plasmonic Cu nanocomposites. Journal of Non-Crystalline Solids, 2020, 544, 120193.	3.1	5

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55	Nanodiamond-induced modifications of Eu-doped phosphate glasses toward photonic applications: A synergistic physico-chemical approach. Materials Advances, 2022, 3, 318-327.	5.4	5
56	Laser Induced Periodic Structures on Polymer Surfaces. Materials and Manufacturing Processes, 1994, 9, 467-473.	4.7	4
57	Rapid optical determination of topological insulator nanoplate thickness and oxidation. AIP Advances, 2017, 7, .	1.3	3
58	Auger electron spectroscopy of laser-deposited Pb1â˜'x Cd x Se films. Journal of Materials Science Letters, 1988, 7, 93-94.	0.5	2
59	Thin-Film Compounds Formation With Pulsed Laser-Plasma Fluxes. Proceedings of SPIE, 1989, 1033, 260.	0.8	2
60	Influence of H2 Atmosphere Annealing on Plasmonic Properties of Cu-Containing Silica Films Sputtered on Amorphous Silica. Plasmonics, 2020, 15, 967-974.	3.4	1
61	Direct surface area measurement from digital images via brightness histogram method. Measurement Science and Technology, 2020, 31, 105602.	2.6	1
62	Physico-chemical analysis of white light-emitting Eu, Dy and Cu tri-doped plasmonic glasses synthesized via nanodiamond. Solid State Communications, 2022, 352, 114840.	1.9	1
63	Thermoreflectance study. I. PbSe energy band structure. Journal Physics D: Applied Physics, 1986, 19, 1771-1777.	2.8	0
64	Rapid optical plasmonic transformation of silver-doped glass. Journal of Thermal Analysis and Calorimetry, 0, , 1.	3.6	0
65	Inflection point kinetics: plasmonic transition of silver and copper doped glasses. Physical Chemistry Chemical Physics, 0, , .	2.8	0