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	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
2	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
3	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
4	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
5	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
6	Eu2+/Eu3+ activated phosphate glasses synthesized via melting with multi-wall carbon nanotubes. Optical Materials, 2020, 109, 110336.	3.6	5
7	Nanodiamond-induced UV transparency in phosphate glasses and development of plasmonic Cu nanocomposites. Journal of Non-Crystalline Solids, 2020, 544, 120193.	3.1	5
8	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
9	Direct surface area measurement from digital images via brightness histogram method. Measurement Science and Technology, 2020, 31, 105602.	2.6	1
10	Surface kinetics analysis by direct area measurement: Laser assisted dehydration of Î±-FeOOH. AIP Advances, 2019, 9, .	1.3	5
11	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
12	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
13	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
14	Rapid optical determination of topological insulator nanoplate thickness and oxidation. AIP Advances, 2017, 7, .	1.3	3
15	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
16	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
17	Enhanced UV transparency in phosphate glasses via multi-wall carbon nanotubes. Journal of Materials Chemistry C, 2016, 4, 9771-9778.	5.5	16
18	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

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19	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
20	Temperatureâ€dependent, microâ€Raman spectroscopic study of barium titanate nanoparticles. Journal of Raman Spectroscopy, 2015, 46, 25-31.	2.5	11
21	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
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	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
24	Kinetics of copper nanoparticle precipitation in phosphate glass: an isothermal plasmonic approach. Physical Chemistry Chemical Physics, 2015, 17, 1241-1246.	2.8	26
25	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
26	Sn centers-mediated enhancement of 1.53 Âµm emission of Er3+ ions in phosphate glass. Materials Letters, 2014, 131, 344-346.	2.6	7
27	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
28	Raman spectroscopic study of the size-dependent order parameter of barium titanate. Journal of Applied Physics, 2014, 115, 214104.	2.5	8
29	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
30	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
31	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
32	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
33	Plasmonic Coupling in Silver Nanocomposite Glasses. Journal of Physical Chemistry C, 2012, 116, 17764-17772.	3.1	25
34	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
35	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
36	Revealing oxidation kinetics of dielectric-embedded Ag nanoparticles via in situ optical microspectroscopy. Chemical Physics Letters, 2012, 523, 107-112.	2.6	10

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37	Real-Time Monitoring of Plasmonic Evolution in Thick Ag:SiO2Films: Nanocomposite Optical Tuning. ACS Applied Materials & Interfaces, 2011, 3, 447-454.	8.0	22
38	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
39	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
40	Supersaturation-Driven Optical Tuning of Ag Nanocomposite Glasses for Photonics: An In Situ Optical Microspectroscopy Study. Plasmonics, 2011, 6, 399-405.	3.4	30
41	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
42	Luminescence of trivalent samarium ions in silver and tin co-doped aluminophosphate glass. Optical Materials, 2011, 33, 1215-1220.	3.6	37
43	Evolution of the optical properties of a silver-doped phosphate glass during thermal treatment. Journal of Luminescence, 2011, 131, 535-538.	3.1	36
44	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
45	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
46	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
47	Temperature dependence of Raman scattering in filled double-walled carbon nanotubes. Journal of Applied Physics, 2010, 108, 044309.	2.5	10
48	Micro-Raman scattering of selenium-filled double-walled carbon nanotubes: Temperature study. Journal of Applied Physics, 2009, 105, 094312.	2.5	7
49	Comparative micro-Raman spectroscopy study of tellurium-filled double-walled carbon nanotubes. Journal of Applied Physics, 2008, 103, .	2.5	9
50	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
51	Raman spectroscopy of PbI2-filled double-walled carbon nanotubes. Journal of Applied Physics, 2005, 98, 104304.	2.5	7
52	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
53	Laserâ€induced subâ€halfâ€micrometer periodic structure on polymer surfaces. Applied Physics Letters, 1994, 64, 563-565.	3.3	72
54	Laser Induced Periodic Structures on Polymer Surfaces. Materials and Manufacturing Processes, 1994, 9, 467-473.	4.7	4

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55	Magnetization of fast and slow oxidized cytochrome c oxidase. Biochemistry, 1993, 32, 7855-7860.	2.5	47
56	Sub-Half-Micron Periodic Structures on Polymer Surfaces with Polarized Laser Irradiation. Japanese Journal of Applied Physics, 1993, 32, 6182-6184.	1.5	27
57	Thin-Film Compounds Formation With Pulsed Laser-Plasma Fluxes. Proceedings of SPIE, 1989, 1033, 260.	0.8	2
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	Infrared absorption of laser deposited PbSe films. Journal of Physics C: Solid State Physics, 1987, 20, 941-951.	1.5	11
60	Laser-assisted deposition of lead salt films. Journal of Materials Science Letters, 1987, 6, 285-288.	0.5	8
61	Laser-assisted sputtering of Pb1â^'x Cd x Se films. Journal of Materials Science Letters, 1986, 5, 533-536.	0.5	35
62	Optical and electrical properties of laser-deposited Pb1â^'x Cd x Se films. Journal of Materials Science Letters, 1986, 5, 537-539.	0.5	11
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