

Yu M Azhniuk

List of Publications by Year in descending order

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75
papers

877
citations

471509

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580821

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75
docs citations

75
times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Growth and spectroscopic characterization of CdSe nanoparticles synthesized from CdCl ₂ and Na ₂ SeSO ₃ in aqueous gelatine solutions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2006, 290, 304-309.	4.7	59
2	Vibrational spectroscopy of compound semiconductor nanocrystals. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 503001.	2.8	57
3	Resonant Raman studies of compositional and size dispersion of CdS _{1-x} Se _x nanocrystals in a glass matrix. <i>Journal of Physics Condensed Matter</i> , 2004, 16, 9069-9082.	1.8	54
4	Confinement-, surface- and disorder-related effects in the resonant Raman spectra of nanometric CdS _{1-x} Se _x crystals. <i>Physica Status Solidi (B): Basic Research</i> , 2003, 239, 490-499.	1.5	52
5	X-ray diffraction and Raman scattering in SbSI nanocrystals. <i>Materials Research Bulletin</i> , 2003, 38, 1767-1772.	5.2	28
6	Thermal treatment-dependent chemical composition of ternary CdS _{1-x} Se _x nanocrystals grown in borosilicate glass. <i>Journal of Crystal Growth</i> , 2010, 312, 1709-1716.	1.5	28
7	Spectroscopic studies of thermal treatment effect on the composition and size of CdS _{1-x} Se _x nanocrystals in borosilicate glass. <i>Journal of Physics and Chemistry of Solids</i> , 2008, 69, 139-146.	4.0	25
8	A spectroscopic and photochemical study of Ag ⁺ , Cu ²⁺ , Hg ²⁺ , and Bi ³⁺ -doped Cd Zn _{1-x} S nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2010, 345, 515-523.	9.4	23
9	Observation of torsional mode in CdS _{1-x} Se _x nanoparticles in a borosilicate glass. <i>Journal of Applied Physics</i> , 2009, 106, 024307.	2.5	22
10	High-energy electron irradiation effects on CdS _{1-x} Se _x quantum dots in borosilicate glass. <i>Physical Review B</i> , 2002, 65, .	3.2	21
11	Growth and characterisation of sulphur-rich TlIn(S _{1-x} Se _x) ₂ single crystals. <i>Journal of Crystal Growth</i> , 2013, 367, 35-41.	1.5	20
12	Incorporation of zinc into CdS _{1-x} Se _x nanocrystals in glass matrix studied by optical spectroscopies. <i>Physica Status Solidi A</i> , 2004, 201, 1578-1587.	1.7	19
13	Precipitates of selenium and tellurium in II ^{VI} nanocrystal-doped glass probed by Raman scattering. <i>Physica Status Solidi (B): Basic Research</i> , 2011, 248, 674-679.	1.5	19
14	SbSI nanocrystal formation in As ^{VI} Sb ^{VI} S ^{VI} I glass under laser beam. <i>Materials Research Bulletin</i> , 2012, 47, 1520-1522.	5.2	19
15	Interplay of factors affecting Raman scattering in cadmium chalcogenide nanocrystals in dielectric media. <i>Journal of Physics: Conference Series</i> , 2007, 79, 012017.	0.4	18
16	Photoinduced Changes in the Structure of As ₂ S ₃ -Based SbSI Nanocrystal-Containing Composites Studied by Raman Spectroscopy. <i>Ferroelectrics</i> , 2011, 416, 113-118.	0.6	18
17	Resonant Raman scattering studies of Cd _{1-x} Zn _x S nanocrystals. <i>Journal of Physics: Conference Series</i> , 2007, 92, 012044.	0.4	17
18	Phonon spectroscopy of CdSe _{1-x} Te _x nanocrystals grown in a borosilicate glass. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009, 6, 2064-2067.	0.8	17

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19	Optical characterization of Cd _{1-x} Z _x S _y nanocrystals grown in borosilicate glass. <i>Physica Status Solidi (B): Basic Research</i> , 2014, 251, 669-674.	1.5	17
20	All-optical patterning in azobenzene polymers and amorphous chalcogenides. <i>Journal of Non-Crystalline Solids</i> , 2019, 512, 112-131.	3.1	17
21	Structure, electrical conductivity, and Raman spectra of (Cu _{1-x} Ag _x) ₇ GeS ₅ I and (Cu _{1-x} Ag _x) ₇ GeSe ₅ I mixed crystals. <i>Materials Research Bulletin</i> , 2021, 135, 111116.	5.2	16
22	Phonon spectra of quaternary Cd _{1-x} Zn _y S _{1-x-y} Se _x semiconductor nanocrystals grown in a glass matrix. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009, 6, 2068-2071.	0.8	15
23	Composition-Dependent Optical Band Bowing, Vibrational, and Photochemical Behavior of Aqueous Glutathione-Capped (Cu, Ag) _{1-x} In _x S Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2020, 124, 19375-19388.	3.1	15
24	Effect of X-ray irradiation on CdS _{1-x} Sex quantum dots optical absorption. <i>Solid State Communications</i> , 2001, 119, 447-451.	1.9	13
25	Raman and x-ray diffraction studies of nanometric Sn ₂ P ₂ S ₆ crystals. <i>Journal of Physics Condensed Matter</i> , 2003, 15, 6381-6393.	1.8	13
26	Formation of CdSe nanocrystals in Cd-doped thin arsenic selenide films under laser irradiation. <i>Thin Solid Films</i> , 2018, 651, 163-169.	1.8	13
27	In-doped As ₂ Se ₃ thin films studied by Raman and X-ray photoelectron spectroscopies. <i>Applied Surface Science</i> , 2019, 471, 943-949.	6.1	13
28	X-ray irradiation-induced ionization of CdS _{1-x} Sex nanocrystals embedded in borosilicate glass. <i>Journal of Applied Physics</i> , 2010, 107, 113528.	2.5	12
29	Chemical composition of matrix-embedded ternary In _{1-x} VI nanocrystals derived from first- and second-order Raman spectra. <i>Journal of Physics and Chemistry of Solids</i> , 2016, 99, 66-74.	4.0	12
30	Laser-Induced Formation of CdS Crystallites in Cd-Doped Amorphous Arsenic Sulfide Thin Films. <i>Physica Status Solidi (B): Basic Research</i> , 2019, 256, 1800298.	1.5	12
31	High-Throughput Robotic Synthesis and Photoluminescence Characterization of Aqueous Multinary Copper-Silver Indium Chalcogenide Quantum Dots. <i>Particle and Particle Systems Characterization</i> , 2021, 38, 2100169.	2.3	12
32	Optical studies of CdSe/HgSe and CdSe/Ag ₂ Se core/shell nanoparticles embedded in gelatin. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 455203.	1.8	11
33	Resonance effects in Raman scattering of quantum dots formed by the Langmuir-Blodgett method. <i>Journal of Physics: Conference Series</i> , 2010, 245, 012045.	0.4	11
34	Structural and optical study of Zn-doped As ₂ Se ₃ thin films: Evidence for photoinduced formation of ZnSe nanocrystallites. <i>AIP Advances</i> , 2019, 9, .	1.3	11
35	Raman Spectra of Quaternary CdS _{1-x} Te _y Se _x Nanocrystals Embedded in Borosilicate Glass. <i>International Journal of Spectroscopy</i> , 2012, 2012, 1-5.	1.6	10
36	Structural and optical properties of (Cu ₆ PS ₅ Br) ₁ -(Cu ₇ PS ₆) mixed crystals. <i>Journal of Alloys and Compounds</i> , 2019, 782, 586-591.	5.5	10

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37	Evidence for formation of Se molecular clusters during precipitation of CdSe _{1-x} S _x nanoparticles in glass. Applied Physics A: Materials Science and Processing, 2009, 95, 473-477.	2.3	9
38	Effect of X-ray irradiation on the optical absorption of CdSe _{1-x} Tex nanocrystals embedded in borosilicate glass. Radiation Physics and Chemistry, 2012, 81, 766-770.	2.8	9
39	In situ Raman observation of laser-induced formation of TlInSe ₂ crystallites in Tl-In-As-Se glass. Journal of Physics and Chemistry of Solids, 2013, 74, 1452-1458.	4.0	9
40	Surface phonons in CdS _{1-x} Sex nanoparticles embedded in a dielectric medium. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 2039-2042.	0.8	8
41	Raman evidence for surface oxidation of amorphous As ₂ S ₃ thin films under ultraviolet irradiation. Applied Surface Science, 2019, 467-468, 119-123.	6.1	8
42	Synthesis from aqueous solutions and optical properties of Ag-In-S quantum dots. Applied Nanoscience (Switzerland), 2020, 10, 4909-4921.	3.1	8
43	Glass-embedded quaternary CdS _{1-x} Se _x Te _y nanocrystals: Chemical composition derived from the Raman band intensities. Journal of Raman Spectroscopy, 2017, 48, 485-493.	2.5	7
44	Raman and AFM studies of (As ₂ S ₃) _{0.45} (SbSI) _{0.55} thin films and bulk glass. Journal of Non-Crystalline Solids, 2014, 396-397, 36-40.	3.1	6
45	Flexoelectric and local heating effects on CdSe nanocrystals in amorphous As ₂ Se ₃ films. Materials Research Express, 2019, 6, 095913.	1.6	6
46	Raman study of laser-induced formation of In-VI nanocrystals in zinc-doped As-S(Se) films. Applied Nanoscience (Switzerland), 2020, 10, 4831-4837.	3.1	6
47	Photoluminescence and optical absorption spectra of ¹³¹ I-(GaxIn _{1-x}) ₂ Se ₃ mixed crystals. Physica Status Solidi (B): Basic Research, 2005, 242, 2113-2120.	1.5	5
48	Irradiation-induced ionization of glass-embedded CdS _{1-x} Sex nanocrystals. Physica E: Low-Dimensional Systems and Nanostructures, 2003, 17, 518-520.	2.7	4
49	Optical Absorption Processes in CdSe Nanocrystals Embedded in Silicate Glass and Organic Polymer Matrices Under 7-MeV Electron Irradiation. Journal of Nanoscience and Nanotechnology, 2008, 8, 806-811.	0.9	4
50	Photoluminescence of X-ray irradiated CdS nanocrystals embedded in dielectric matrices. Physica Status Solidi (A) Applications and Materials Science, 2013, 210, 1115-1120.	1.8	4
51	Ternary Cd _{1-x} Se _x nanocrystals formed in Cd-doped As-Se-S films due to photoenhanced diffusion during micro-Raman measurement. Journal of Raman Spectroscopy, 2021, 52, 821-832.	2.5	4
52	Disorder Effects and Resonant Features in Raman Spectra of Electron-Irradiated GaP and CdS Crystals. Physica Status Solidi (B): Basic Research, 2001, 227, 595-603.	1.5	3
53	Structural and optical study of glutathione-capped Ag-In-S nanocrystals. Molecular Crystals and Liquid Crystals, 2021, 717, 98-108.	0.9	3
54	Mass transport in amorphous As ₂ S ₃ films due to directional light scattering under illumination by an oblique tightly focused beam. Journal of Non-Crystalline Solids, 2022, 576, 121269.	3.1	3

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55	Characterization of Ag-In-S films prepared by thermal evaporation. <i>Materials Today: Proceedings</i> , 2022, 62, 5745-5748.	1.8	3
56	Raman study of photoinduced changes in Cd-doped amorphous GeSe ₂ films. <i>Materials Today: Proceedings</i> , 2022, 62, 5759-5762.	1.8	3
57	Raman scattering in chalcogenide-based ferroelectrics: from bulk to nanoscale. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2004, 1, 3166-3169.	0.8	2
58	Optical absorption of II-VI semiconductor-doped glasses exposed to 7MeV electron irradiation. <i>Optical Materials</i> , 2013, 35, 2275-2282.	3.6	2
59	Comment to "Continuous-wave laser irradiation to form Cd ^{1-x} Zn ^x Se shell on CdSe QDs in silicate glasses" (J. Amer. Ceram. Soc. 102, 4555-4561 (2019)). <i>Journal of the American Ceramic Society</i> , 2020, 103, 692-694.	3.8	2
60	CdS nanocrystals formed in amorphous GeS ₂ :Cd films by photoenhanced diffusion. <i>Applied Nanoscience (Switzerland)</i> , 2022, 12, 1091-1099.	3.1	2
61	Optical and electrical properties of Cu ₆ PS ₅ I-based thin films versus copper content variation. <i>Ukrainian Journal of Physical Optics</i> , 2017, 18, 232.	13.0	2
62	Disorder-Activated First-Order Raman Scattering by Acoustic Phonons in Electron-Irradiated GaP Crystals. <i>Physica Status Solidi (B): Basic Research</i> , 1989, 154, K197.	1.5	1
63	Confined Acoustic Phonon in CdS _{1-x} Se _x Nanoparticles in Borosilicate Glass. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 5541-5544.	0.9	1
64	MicroRaman studies of implantation-induced amorphization of Si and subsequent regrowth under high-pressure and high-temperature treatment. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010, 207, 2432-2436.	1.8	1
65	Long-Term Stability of Optical Properties of Colloidal CdSe Nanocrystals in Polymer Matrices. <i>International Journal of Nanoscience</i> , 2019, 18, 1940052.	0.7	1
66	Comment to "Formation of CdS/Cd _{1-x} Zn _x S sandwich-structured quantum dots with high quantum efficiency in silicate glasses" (Journal of Luminescence 186 (2017) 30-33). <i>Journal of Luminescence</i> , 2020, 219, 116921.	3.1	1
67	Photo- and Thermally Stimulated Luminescence Spectra of CdS _{1-x} Se _x Nanocrystals Embedded in Borosilicate Glass. <i>Journal of Nano- and Electronic Physics</i> , 2016, 8, 03024-1-03024-8.	0.5	1
68	Raman scattering from polaritons and plasmaritons in 6H-SiC. <i>Physica Status Solidi (B): Basic Research</i> , 1986, 135, 75-84.	1.5	0
69	Optical absorption spectra of 10-MeV electron-irradiated paratellurite single crystals. <i>Radiation Effects and Defects in Solids</i> , 2001, 153, 205-210.	1.2	0
70	Effect of electron irradiation upon photoluminescence of CdS _{1-x} Se _x mixed crystals. <i>Radiation Physics and Chemistry</i> , 2003, 68, 85-90.	2.8	0
71	Synthesis and Optical Properties of CdSe Nanocrystals Obtained from CdCl ₂ and Na ₂ SeSO ₃ Aqueous Solutions in the Presence of Gelatine. , 0, , .		0
72	Optical studies of the evolution of the core/shell interface in CdSe- and CdS-based core/shell nanostructures with a narrow-gap shell. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2010, 7, 402-406.	0.8	0

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73	Comment to “Multi-photon Raman scattering and yellow-green-light emission from feather-like Cd _{1-x} Zn _x S nanostructures” by Song Yang and Jun Zhang (Applied Physics A (2019) 125:454). Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	0
74	Formation of molecular Se ₂ dimers in semiconductor-doped borosilicate glasses. Molecular Crystals and Liquid Crystals, 2020, 700, 54-62.	0.9	0
75	Annealing-induced formation of Sn ₂ P ₂ S ₆ crystallites in As ₂ S ₃ -based glass matrix. Semiconductor Physics, Quantum Electronics and Optoelectronics, 2015, 18, 248-254.	1.0	0