

# Yu M Azhniuk

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6899832/publications.pdf>

Version: 2024-02-01

75  
papers

877  
citations

471509

17  
h-index

580821

25  
g-index

75  
all docs

75  
docs citations

75  
times ranked

677  
citing authors

#	ARTICLE	IF	CITATIONS
1	CdS nanocrystals formed in amorphous GeS <sub>2</sub> :Cd films by photoenhanced diffusion. Applied Nanoscience (Switzerland), 2022, 12, 1091-1099.	3.1	2
2	Mass transport in amorphous As <sub>2</sub> S <sub>3</sub> 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
3	Characterization of Ag-In-S films prepared by thermal evaporation. Materials Today: Proceedings, 2022, 62, 5745-5748.	1.8	3
4	Raman study of photoinduced changes in Cd-doped amorphous GeSe <sub>2</sub> films. Materials Today: Proceedings, 2022, 62, 5759-5762.	1.8	3
5	Structure, electrical conductivity, and Raman spectra of (Cu <sub>1-x</sub> Ag <sub>x</sub> ) <sub>7</sub> GeS <sub>5</sub> I and (Cu <sub>1-x</sub> Ag <sub>x</sub> ) <sub>7</sub> GeSe <sub>5</sub> I mixed crystals. Materials Research Bulletin, 2021, 135, 111116.	5.2	16
6	Structural and optical study of glutathione-capped Ag-In-S nanocrystals. Molecular Crystals and Liquid Crystals, 2021, 717, 98-108.	0.9	3
7	High-Throughput Robotic Synthesis and Photoluminescence Characterization of Aqueous Multinary Copper-Silver Indium Chalcogenide Quantum Dots. Particle and Particle Systems Characterization, 2021, 38, 2100169.	2.3	12
8	Ternary Cd <sub>1-x</sub> Se <sub>x</sub> 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
9	Comment to "Continuous-wave laser irradiation to form Cd <sub>1-x</sub> Zn <sub>x</sub> Se shell on CdSe QDs in silicate glasses" (J. Amer. Ceram. Soc. 102, 4555-4561 (2019)). Journal of the American Ceramic Society, 2020, 103, 692-694.	3.8	2
10	Comment to "Formation of CdS/Cd <sub>1-x</sub> Zn <sub>x</sub> S sandwich-structured quantum dots with high quantum efficiency in silicate glasses" (Journal of Luminescence 186 (2017) 30-33). Journal of Luminescence, 2020, 219, 116921.	3.1	1
11	Formation of molecular Se <sub>2</sub> dimers in semiconductor-doped borosilicate glasses. Molecular Crystals and Liquid Crystals, 2020, 700, 54-62.	0.9	0
12	Composition-Dependent Optical Band Bowing, Vibrational, and Photochemical Behavior of Aqueous Glutathione-Capped (Cu, Ag)-In-S Quantum Dots. Journal of Physical Chemistry C, 2020, 124, 19375-19388.	3.1	15
13	Raman study of laser-induced formation of In-VI nanocrystals in zinc-doped As-S(S <sub>e</sub> ) films. Applied Nanoscience (Switzerland), 2020, 10, 4831-4837.	3.1	6
14	Synthesis from aqueous solutions and optical properties of Ag-In-S quantum dots. Applied Nanoscience (Switzerland), 2020, 10, 4909-4921.	3.1	8
15	Comment to "Multi-photon Raman scattering and yellow-green-light emission from feather-like Cd <sub>1-x</sub> Zn <sub>x</sub> 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
16	Flexoelectric and local heating effects on CdSe nanocrystals in amorphous As <sub>2</sub> S <sub>3</sub> films. Materials Research Express, 2019, 6, 095913.	1.6	6
17	Long-Term Stability of Optical Properties of Colloidal CdSe Nanocrystals in Polymer Matrices. International Journal of Nanoscience, 2019, 18, 1940052.	0.7	1
18	Structural and optical study of Zn-doped As <sub>2</sub> Se <sub>3</sub> thin films: Evidence for photoinduced formation of ZnSe nanocrystallites. AIP Advances, 2019, 9, .	1.3	11

#	ARTICLE	IF	CITATIONS
19	All-optical patterning in azobenzene polymers and amorphous chalcogenides. <i>Journal of Non-Crystalline Solids</i> , 2019, 512, 112-131.	3.1	17
20	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
21	In-doped As <sub>2</sub> Se <sub>3</sub> thin films studied by Raman and X-ray photoelectron spectroscopies. <i>Applied Surface Science</i> , 2019, 471, 943-949.	6.1	13
22	Structural and optical properties of (Cu <sub>6</sub> PS <sub>5</sub> Br) <sub>1</sub> -(Cu <sub>7</sub> PS <sub>6</sub> ) mixed crystals. <i>Journal of Alloys and Compounds</i> , 2019, 782, 586-591.	5.5	10
23	Raman evidence for surface oxidation of amorphous As <sub>2</sub> S <sub>3</sub> thin films under ultraviolet irradiation. <i>Applied Surface Science</i> , 2019, 467-468, 119-123.	6.1	8
24	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
25	Vibrational spectroscopy of compound semiconductor nanocrystals. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 503001.	2.8	57
26	Glass-embedded quaternary Cd <sub>x</sub> Se <sub>x</sub> Te <sub>y</sub> nanocrystals: Chemical composition derived from the Raman band intensities. <i>Journal of Raman Spectroscopy</i> , 2017, 48, 485-493.	2.5	7
27	Optical and electrical properties of Cu <sub>6</sub> PS <sub>5</sub> I-based thin films versus copper content variation. <i>Ukrainian Journal of Physical Optics</i> , 2017, 18, 232.	13.0	2
28	Chemical composition of matrix-embedded ternary II-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
29	Photo- and Thermally Stimulated Luminescence Spectra of CdS Nanocrystals Embedded in Borosilicate Glass. <i>Journal of Nano- and Electronic Physics</i> , 2016, 8, 03024-1-03024-8.	0.5	1
30	Annealing-induced formation of Sn <sub>2</sub> P <sub>2</sub> S <sub>6</sub> crystallites in As <sub>2</sub> S <sub>3</sub> -based glass matrix. <i>Semiconductor Physics, Quantum Electronics and Optoelectronics</i> , 2015, 18, 248-254.	1.0	0
31	Raman and AFM studies of (As <sub>2</sub> S <sub>3</sub> ) <sub>0.45</sub> (SbSI) <sub>0.55</sub> thin films and bulk glass. <i>Journal of Non-Crystalline Solids</i> , 2014, 396-397, 36-40.	3.1	6
32	Optical characterization of Cd <sub>x</sub> Zn <sub>1-x</sub> S nanocrystals grown in borosilicate glass. <i>Physica Status Solidi (B): Basic Research</i> , 2014, 251, 669-674.	1.5	17
33	Growth and characterisation of sulphur-rich TlIn(S <sub>1-x</sub> Se) <sub>2</sub> single crystals. <i>Journal of Crystal Growth</i> , 2013, 367, 35-41.	1.5	20
34	Photoluminescence of X-ray irradiated CdS nanocrystals embedded in dielectric matrices. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013, 210, 1115-1120.	1.8	4
35	Optical absorption of II-VI semiconductor-doped glasses exposed to 7MeV electron irradiation. <i>Optical Materials</i> , 2013, 35, 2275-2282.	3.6	2
36	In situ Raman observation of laser-induced formation of TlInSe <sub>2</sub> crystallites in TlInAsSe glass. <i>Journal of Physics and Chemistry of Solids</i> , 2013, 74, 1452-1458.	4.0	9

#	ARTICLE	IF	CITATIONS
37	Raman Spectra of Quaternary Cd <sub>1-x</sub> Se <sub>x</sub> Te <sub>y</sub> Nanocrystals Embedded in Borosilicate Glass. <i>International Journal of Spectroscopy</i> , 2012, 2012, 1-5.	1.6	10
38	Effect of X-ray irradiation on the optical absorption of CdSe <sub>1-x</sub> Te <sub>x</sub> nanocrystals embedded in borosilicate glass. <i>Radiation Physics and Chemistry</i> , 2012, 81, 766-770.	2.8	9
39	SbSI nanocrystal formation in As <sub>2</sub> S <sub>3</sub> glass under laser beam. <i>Materials Research Bulletin</i> , 2012, 47, 1520-1522.	5.2	19
40	Precipitates of selenium and tellurium in As <sub>2</sub> S <sub>3</sub> nanocrystal-doped glass probed by Raman scattering. <i>Physica Status Solidi (B): Basic Research</i> , 2011, 248, 674-679.	1.5	19
41	Photoinduced Changes in the Structure of As <sub>2</sub> S <sub>3</sub> -Based SbSI Nanocrystal-Containing Composites Studied by Raman Spectroscopy. <i>Ferroelectrics</i> , 2011, 416, 113-118.	0.6	18
42	Thermal treatment-dependent chemical composition of ternary CdS <sub>1-x</sub> Se <sub>x</sub> nanocrystals grown in borosilicate glass. <i>Journal of Crystal Growth</i> , 2010, 312, 1709-1716.	1.5	28
43	A spectroscopic and photochemical study of Ag <sup>+</sup> , Cu <sup>2+</sup> , Hg <sup>2+</sup> , and Bi <sup>3+</sup> -doped CdZn <sub>1-x</sub> S nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2010, 345, 515-523.	9.4	23
44	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
45	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
46	X-ray irradiation-induced ionization of CdS <sub>1-x</sub> Se <sub>x</sub> nanocrystals embedded in borosilicate glass. <i>Journal of Applied Physics</i> , 2010, 107, 113528.	2.5	12
47	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
48	Observation of torsional mode in CdS <sub>1-x</sub> Se <sub>x</sub> nanoparticles in a borosilicate glass. <i>Journal of Applied Physics</i> , 2009, 106, 024307.	2.5	22
49	Confined Acoustic Phonon in CdS <sub>1-x</sub> Se <sub>x</sub> Nanoparticles in Borosilicate Glass. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 5541-5544.	0.9	1
50	Evidence for formation of Se molecular clusters during precipitation of CdSe <sub>1-x</sub> S <sub>x</sub> nanoparticles in glass. <i>Applied Physics A: Materials Science and Processing</i> , 2009, 95, 473-477.	2.3	9
51	Phonon spectra of quaternary Cd <sub>1-x</sub> Zn <sub>y</sub> S <sub>1-x-y</sub> Se <sub>x</sub> 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
52	Phonon spectroscopy of CdSe <sub>1-x</sub> Te <sub>x</sub> 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
53	Surface phonons in CdS <sub>1-x</sub> Se <sub>x</sub> nanoparticles embedded in a dielectric medium. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009, 6, 2039-2042.	0.8	8
54	Spectroscopic studies of thermal treatment effect on the composition and size of CdS <sub>1-x</sub> Se <sub>x</sub> nanocrystals in borosilicate glass. <i>Journal of Physics and Chemistry of Solids</i> , 2008, 69, 139-146.	4.0	25

#	ARTICLE	IF	CITATIONS
55	Optical studies of CdSe/HgSe and CdSe/Ag <sub>2</sub> Se core/shell nanoparticles embedded in gelatin. Journal of Physics Condensed Matter, 2008, 20, 455203.	1.8	11
56	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
57	Resonant Raman scattering studies of Cd <sub>1-x</sub> Zn <sub>x</sub> S nanocrystals. Journal of Physics: Conference Series, 2007, 92, 012044.	0.4	17
58	Interplay of factors affecting Raman scattering in cadmium chalcogenide nanocrystals in dielectric media. Journal of Physics: Conference Series, 2007, 79, 012017.	0.4	18
59	Growth and spectroscopic characterization of CdSe nanoparticles synthesized from CdCl <sub>2</sub> and Na <sub>2</sub> SeSO <sub>3</sub> in aqueous gelatine solutions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2006, 290, 304-309.	4.7	59
60	Photoluminescence and optical absorption spectra of <sup>131</sup> In <sub>1-x</sub> Ga <sub>x</sub> In <sub>1-x</sub> Se <sub>3</sub> mixed crystals. Physica Status Solidi (B): Basic Research, 2005, 242, 2113-2120.	1.5	5
61	Incorporation of zinc into CdS <sub>1-x</sub> Se <sub>x</sub> nanocrystals in glass matrix studied by optical spectroscopies. Physica Status Solidi A, 2004, 201, 1578-1587.	1.7	19
62	Raman scattering in chalcogenide-based ferroelectrics: from bulk to nanoscale. Physica Status Solidi C: Current Topics in Solid State Physics, 2004, 1, 3166-3169.	0.8	2
63	Resonant Raman studies of compositional and size dispersion of CdS <sub>1-x</sub> Se <sub>x</sub> nanocrystals in a glass matrix. Journal of Physics Condensed Matter, 2004, 16, 9069-9082.	1.8	54
64	X-ray diffraction and Raman scattering in SbSI nanocrystals. Materials Research Bulletin, 2003, 38, 1767-1772.	5.2	28
65	Effect of electron irradiation upon photoluminescence of CdS <sub>1-x</sub> Se <sub>x</sub> mixed crystals. Radiation Physics and Chemistry, 2003, 68, 85-90.	2.8	0
66	Irradiation-induced ionization of glass-embedded CdS <sub>1-x</sub> Se <sub>x</sub> nanocrystals. Physica E: Low-Dimensional Systems and Nanostructures, 2003, 17, 518-520.	2.7	4
67	Confinement-, surface- and disorder-related effects in the resonant Raman spectra of nanometric CdS <sub>1-x</sub> Se <sub>x</sub> crystals. Physica Status Solidi (B): Basic Research, 2003, 239, 490-499.	1.5	52
68	Raman and x-ray diffraction studies of nanometric Sn <sub>2</sub> P <sub>2</sub> S <sub>6</sub> crystals. Journal of Physics Condensed Matter, 2003, 15, 6381-6393.	1.8	13
69	High-energy electron irradiation effects on CdS <sub>1-x</sub> Se <sub>x</sub> quantum dots in borosilicate glass. Physical Review B, 2002, 65, .	3.2	21
70	Effect of X-ray irradiation on CdS <sub>1-x</sub> Se <sub>x</sub> quantum dots optical absorption. Solid State Communications, 2001, 119, 447-451.	1.9	13
71	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
72	Optical absorption spectra of 10-MeV electron-irradiated paratellurite single crystals. Radiation Effects and Defects in Solids, 2001, 153, 205-210.	1.2	0

#	ARTICLE	IF	CITATIONS
73	Disorder-Activated First-Order Raman Scattering by Acoustic Phonons in Electron-Irradiated GaP Crystals. Physica Status Solidi (B): Basic Research, 1989, 154, K197.	1.5	1
74	Raman scattering from polaritons and plasmaritons in 6H-SiC. Physica Status Solidi (B): Basic Research, 1986, 135, 75-84.	1.5	0
75	Synthesis and Optical Properties of CdSe Nanocrystals Obtained from CdCl <sub>2</sub> and Na <sub>2</sub> SeSO <sub>3</sub> Aqueous Solutions in the Presence of Gelatine. , 0, , .		0