Miroslav Vlcek

List of Publications by Year
in descending order

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47	561	623734	677142
papers	citations	14 h-index	22 g-index

48	48	48	352
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Enhanced optical properties of ZnSexS1-x and Mn-doped ZnSexS1-x QDs via non-toxic synthetic approach. Materials Chemistry and Physics, 2022, 284, 126060.	4.0	2
2	Morphology and optical properties of CeF3 and CeF3:Tb nanocrystals: The dominant role of the reaction thermal mode. Materials Chemistry and Physics, 2021, 260, 124161.	4.0	4
3	Tunable optical performance in nanosized AgInS2-ZnS solid solution heterostructures due to the precursorâ€™s ratio modification. Optical Materials Express, 2021, 11, 539.	3.0	6
4	Structuring of solution processed and thermally evaporated As33S67 thin films by soft stamp hot embossing method. Journal of Non-Crystalline Solids, 2021, 559, 120674.	3.1	2
5	Parameterization of photobleaching and photodarkening in-situ kinetics in thermally deposited GeSe2 thin films. Thin Solid Films, 2021, 726, 138659.	1.8	5
6	Preparation of quaternary solution processed chalcogenide thin films using mixtures of separate As40S60 and Ge20Sb5S75 glass solutions. Journal of Non-Crystalline Solids, 2021, 564, 120833.	3.1	5
7	Highly Efficient and Controllable Methodology of the Cd0.25Zn0.75Se/ZnS Core/Shell Quantum Dots Synthesis. Nanomaterials, 2021, 11, 2616.	4.1	3
8	Environmentally friendly approach to the synthesis of monodisperse and bright blue emitting Cd0.15Zn0.85S quantum dots. Journal of Alloys and Compounds, 2020, 812, 152159.	5.5	8
9	Comparison of solution processed As33S67 thin films deposited using primary amines of various aliphatic chain length. Journal of Non-Crystalline Solids, 2020, 550, 120382.	3.1	3
10	The systematic study of the precursor ratio effect in the Cdâ€“Znâ€“S quantum dot synthesis. CrystEngComm, 2020, 22, 4324-4337.	2.6	2
11	N,Nâ€²,Nâ€²-trisubstituted thiourea as a novel sulfur source for the synthesis of Mn-doped ZnS QDs. Journal of Alloys and Compounds, 2020, 831, 154814.	5.5	10
12	Deposition and characterization of solution processed Se-rich Ge-Se thin films with specular optical quality using multi-component solvent approach. Optical Materials Express, 2020, 10, 2973.	3.0	9
13	Synthetic development in Cdâ€“Znâ€“Se quantum dots chemistry. Optical Materials, 2019, 97, 109385.	3.6	5
14	Comparison of optical and chemical properties of thermally evaporated and spin-coated chalcogenide As S thin films targeting electron beam lithography applications. Journal of Non-Crystalline Solids, 2019, 508, 7-14.	3.1	13
15	Modification of solution processed thin chalcogenide films composition by source solution doping. Journal of Non-Crystalline Solids, 2019, 517, 76-82.	3.1	7
16	Study of dryâ€•and wetâ€process amorphous arsenic sulfides: Synthesis, Raman reference spectra, and identification in historical art materials. Journal of Raman Spectroscopy, 2019, 50, 396-406.	2.5	13
17	Solution processed Ge₂₀Sb₅S₇₅ thin films: the effect of solution concentration and multiple layers stacking. Optical Materials Express, 2019, 9, 4360.	3.0	7
18	Mechanistic investigation of the sulfur precursor evolution in the synthesis of highly photoluminescent Cd_{0.15}Zn_{0.85}S quantum dots. New Journal of Chemistry, 2018, 42, 14779-14788.	2.8	8

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19	Solution processed As₃₀Se₇₀chalcogenide glass thin films with specular optical quality: multi-component solvent approach. Optical Materials Express, 2018, 8, 948.	3.0	11
20	Photoresponse of inorganic-organic thin film composites based on chalcogenide glasses. AIP Conference Proceedings, 2018, , .	0.4	0
21	Spectroscopic ellipsometry characterization of spin-coated Ge₂₅S₇₅ chalcogenide thin films. Pure and Applied Chemistry, 2017, 89, 437-449.	1.9	4
22	Thermal dependence of photo-induced effects in spin-coated As20Ge12.5S67.5 thin films. Journal of Non-Crystalline Solids, 2017, 471, 415-420.	3.1	9
23	Exposure enhanced photoluminescence of CdS_{0.9}Se_{0.1}quantum dots embedded in spin-coated Ge₂₅S₇₅thin films. RSC Advances, 2017, 7, 53830-53838.	3.6	20
24	Properties of arsenic sulphide (Î²-As4S4) modified by mechanical activation. Journal of Materials Science, 2017, 52, 1747-1758.	3.7	26
25	Structural origin of surface transformations in arsenic sulfide thin films upon UV-irradiation. Applied Surface Science, 2017, 394, 604-612.	6.1	10
26	Structure and properties of spin-coated Ge_25S_75 chalcogenide thin films. Optical Materials Express, 2016, 6, 1973.	3.0	21
27	Preparation of arsenic sulfide thin films for integrated optical elements by spiral bar coating. Optical Materials Express, 2014, 4, 384.	3.0	31
28	Raman Spectra in As-Based Chalcogenide Optical Fibers. Journal of Nanoelectronics and Optoelectronics, 2014, 9, 253-256.	0.5	2
29	Electronic and atomic structure of amorphous thin films with high-resolution XPS: Examples of applications & limitations. Journal of Non-Crystalline Solids, 2013, 377, 155-158.	3.1	5
30	Wavelength Dependence of Photostructural Transformations in As2S3 Thin Films. Physics Procedia, 2013, 44, 75-81.	1.2	7
31	Comparison of structural transforma- tions in bulk and as-evaporated optical media under action of polychromatic or photon-energy dependent monochromatic illumination. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 2705-2708.	0.8	28
32	Peculiarities of As-S glass structure doped with ytterbium. , 2011, , .		4
33	Direct fabrication of surface relief gratings in chalcogenide glasses by excimer laser interference lithography. Journal of Materials Science: Materials in Electronics, 2009, 20, 290-293.	2.2	16
34	Photoinduced volume change in arsenic chalcogenides by band-gap light. Physical Review B, 2006, 74, .	3.2	37
35	Observation of light polarization-dependent structural changes in chalcogenide glasses. Applied Physics Letters, 2003, 82, 706-708.	3.3	55
36	Glass formation in the Geâ€“Seâ€“AgI ternary. Journal of Non-Crystalline Solids, 2000, 266-269, 867-871.	3.1	16

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37	<title>Image formation properties of As<formula><inf><roman>40</roman></inf></formula>S<formula><inf><roman>20</roman></inf></formula>Se<formula><inf><ro thin layers</title>. , 1998, , .		1
38	Imaging technology based on As 38 S 62 thin layers. , 1998, 3573, 401.		2
39	Optical characterization of As 40 S 40 Se 20 inorganic resist. , 1998, , .		3
40	<title>Photoimaging properties and imaging technology based on As<formula><inf><roman>40</roman></inf></formula>Se<formula><inf><roman>60</roman></inf></formula> thin layers</title>. , 1998, 3450, 125.		0
41	Rutherford backscattering and kinetics study of the photo-induced solid state chemical reaction between silver and amorphous As33S67 layers. Journal of Non-Crystalline Solids, 1997, 212, 157-165.	3.1	17
42	Kinetics and Rutherford backscattering study of the photo-induced solid state chemical reaction between silver and amorphous As33S67layers. , 1996, , .		1
43	The influence of the composition of the layers and of the inorganic solvents on photoinduced dissolution of As-S amorphous thin films. Journal of Non-Crystalline Solids, 1991, 137-138, 1035-1038.	3.1	24
44	Photoinduced changes of structure and properties of amorphous chalcogenides. Reactivity of Solids, 1988, 5, 341-349.	0.3	15
45	Photoinduced effects in Ge-Sb-S glasses and amorphous layers. Journal of Non-Crystalline Solids, 1987, 90, 513-516.	3.1	21
46	Model of photoinduced changes of optical properties in amorphous layers and glasses of Ge-Sb-S, Ge-S, As-S and As-Se systems. Journal of Non-Crystalline Solids, 1987, 97-98, 1223-1226.	3.1	58
47	Study of Lithium-Lead Phosphate and Borophosphate Glasses. Advanced Materials Research, 0, 39-40, 181-184.	0.3	5