

Andriy Kovalskiy

List of Publications by Year in descending order

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74
papers

1,170
citations

304743

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74
all docs

74
docs citations

74
times ranked

838
citing authors

#	ARTICLE	IF	CITATIONS
1	Remedial insight on ageing of glass through the study of ancient man-made artefacts. <i>Archaeometry</i> , 2021, 63, 312-326.	1.3	0
2	The Structure of $\text{Ca}_{1-x}\text{Sb}_x\text{Se}$ Glasses by High-Resolution X-Ray Photoelectron Spectroscopy. <i>Physica Status Solidi (B): Basic Research</i> , 2021, 258, 2100074.	1.5	3
3	Parameterization of photobleaching and photodarkening in-situ kinetics in thermally deposited GeSe_2 thin films. <i>Thin Solid Films</i> , 2021, 726, 138659.	1.8	5
4	On the paradigm of physical aging in stoichiometric As_2Se_3 glass as illusory manifestation of anti-aging ability in optimally-constrained covalent networks. <i>Coordination Chemistry Reviews</i> , 2021, 449, 214211.	18.8	1
5	Replacing Lab Report Grading by Online Lab Quizzes. <i>Physics Teacher</i> , 2020, 58, 55-57.	0.3	1
6	Milling-driven nanonization of As S100- alloys from second glass-forming region: The case of lower-crystalline arsenicals ($56 < x < 66$). <i>Journal of Non-Crystalline Solids</i> , 2020, 549, 120339.	3.1	4
7	Milling-driven nanonization of As S100- alloys from second glass-forming region: The case of higher-crystalline arsenicals ($51 < x < 56$). <i>Journal of Non-Crystalline Solids</i> , 2020, 539, 120086.	3.1	4
8	Phenomenology of ^{13}C -irradiation-induced changes in optical properties of chalcogenide semiconductor glasses: A case study of binary arsenic sulfides. <i>Journal of Non-Crystalline Solids</i> , 2018, 498, 315-322.	3.1	13
9	Photoresponse of inorganic-organic thin film composites based on chalcogenide glasses. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	0
10	Chemical order in Ga or Sb modified germanium sulfide glasses around stoichiometry: High-resolution XPS and Raman studies. <i>Journal of Non-Crystalline Solids</i> , 2018, 499, 237-244.	3.1	14
11	Nanostructurization effects in PVP-stabilized tetra-arsenic tetra-sulfide As_4S_4 nanocomposites. <i>Materials Chemistry and Physics</i> , 2017, 186, 251-260.	4.0	15
12	Structural origin of surface transformations in arsenic sulfide thin films upon UV-irradiation. <i>Applied Surface Science</i> , 2017, 394, 604-612.	6.1	10
13	Structural origin of electrical conductivity of copper lithium metaphosphate glasses. <i>Journal of Non-Crystalline Solids</i> , 2016, 447, 91-97.	3.1	11
14	Oxygen incorporation into GST phase-change memory matrix. <i>Applied Surface Science</i> , 2015, 332, 533-541.	6.1	47
15	Medium range order and structural relaxation in $\text{As}_{1-x}\text{Se}_x$ network glasses through FSDP analysis. <i>Materials Chemistry and Physics</i> , 2015, 153, 432-442.	4.0	13
16	Structural features of spin-coated thin films of binary $\text{As}_x\text{S}_{1-x}$ chalcogenide glass system. <i>Thin Solid Films</i> , 2015, 589, 642-648.	1.8	11
17	Intrinsic phase separation in low-temperature quenched arsenic trisulfide glass. <i>Journal of Non-Crystalline Solids</i> , 2015, 430, 16-20.	3.1	8
18	Mechanism of the dissolution of As_2S_3 chalcogenide glass in n-butylamine and its influence on the structure of spin coated layers. <i>Journal of Non-Crystalline Solids</i> , 2015, 426, 125-131.	3.1	32

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19	Chalcogenide glass resists for lithography. , 2014, , 562-596.		3
20	Chemical order in $GexAsySe1-x-y$ glasses probed by high resolution X-ray photoelectron spectroscopy. Journal of Applied Physics, 2014, 115, .	2.5	15
21	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
22	Study of $As_{50}Se_{50}$ Thin Film Dissolution Kinetics in Amine based Solutions. Physics Procedia, 2013, 44, 114-119.	1.2	2
23	Direct investigation of silver photodissolution dynamics and reversibility in arsenic trisulphide thin films by atomic force microscopy. Nanotechnology, 2013, 24, 125706.	2.6	8
24	Structural organization of As-rich selenide glasses. Solid State Communications, 2013, 165, 22-26.	1.9	11
25	Wavelength Dependence of Photostructural Transformations in As_2S_3 Thin Films. Physics Procedia, 2013, 44, 75-81.	1.2	7
26	Structure of $SbxGe_{40-x}Se_{60}$ glasses around 2.67 average coordination number. Journal of Non-Crystalline Solids, 2012, 358, 163-167.	3.1	22
27	Role of local structure in the phase change of $GeTe$ films. Chemical Physics Letters, 2012, 534, 58-61.	2.6	14
28	In search of energy landscape for network glasses. Applied Physics Letters, 2011, 98, .	3.3	21
29	Short-range order evolution in S-rich GeS glasses by X-ray photoelectron spectroscopy. Journal of Non-Crystalline Solids, 2011, 357, 1797-1803.	3.1	18
30	Topology and chemical order in $As_{1-x}Ge_xSe_1$ glasses: A high-resolution X-ray photoelectron spectroscopy study. Journal of Non-Crystalline Solids, 2011, 357, 3454-3460.	3.1	23
31	Valence band structure of binary chalcogenide vitreous semiconductors by high-resolution XPS. Semiconductors, 2011, 45, 423-426.	0.5	7
32	Temperature-dependent structural relaxation in $As_{40}Se_{60}$ glass. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 3032-3036.	2.1	23
33	Investigation of interdiffusion in Sb/As_2S_3 nano-layered structures by high-resolution X-ray photoelectron spectroscopy. Thin Solid Films, 2011, 519, 3437-3442.	1.8	9
34	Effect of the interface glass on electrical performance of screen printed Ag thick-film contacts of Si solar cells. Thin Solid Films, 2010, 518, e111-e113.	1.8	17
35	Fabrication of freestanding SWCNT networks for fast microbolometric focal plane array sensor. Proceedings of SPIE, 2010, , .	0.8	2
36	Combined high-resolution XPS and EXAFS study of Ag photodissolution in a- As_2S_3 thin film. Journal of Non-Crystalline Solids, 2010, 356, 2332-2336.	3.1	9

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37	Structural model of homogeneous As ³⁺ S glasses derived from Raman spectroscopy and high-resolution XPS. <i>Philosophical Magazine</i> , 2010, 90, 4489-4501.	1.6	52
38	Chalcogenide glass thin film resists for grayscale lithography. <i>Proceedings of SPIE</i> , 2009, , .	0.8	6
39	Evolution of chemical structure during silver photodiffusion into chalcogenide glass thin films. <i>Journal of Non-Crystalline Solids</i> , 2009, 355, 1924-1929.	3.1	23
40	Structural paradigm of Se-rich Ge ³⁺ Se glasses by high-resolution x-ray photoelectron spectroscopy. <i>Journal of Applied Physics</i> , 2009, 105, 103704.	2.5	42
41	Chalcogenide glass e-beam and photoresists for ultrathin grayscale patterning. <i>Journal of Micro/Nanolithography, MEMS, and MOEMS</i> , 2009, 8, 043012.	0.9	58
42	Comparative study of electron- and photo-induced structural transformations on the surface of As ₃₅ S ₆₅ amorphous thin films. <i>Thin Solid Films</i> , 2008, 516, 7511-7518.	1.8	23
43	In Situ Measurements of X-Ray-Induced Silver Diffusion into a Ge ₃₀ Se ₇₀ Thin Film. <i>Journal of the American Ceramic Society</i> , 2008, 91, 760-765.	3.8	49
44	Long-term physical ageing in As ³⁺ Se glasses with short chalcogen chains. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 245101.	1.8	27
45	Coordination defects in bismuth-modified arsenic selenide glasses: High-resolution x-ray photoelectron spectroscopy measurements. <i>Physical Review B</i> , 2008, 77, .	3.2	26
46	Fabrication of nano-gratings in arsenic sulphide films. <i>Journal of Non-Crystalline Solids</i> , 2007, 353, 1427-1430.	3.1	30
47	Structure of Se-rich As-Se glasses by high-resolution x-ray photoelectron spectroscopy. <i>Physical Review B</i> , 2007, 76, .	3.2	81
48	On the mechanism of gray scale patterning of Ag-containing As ₂ S ₃ thin films. <i>Journal of Physics and Chemistry of Solids</i> , 2007, 68, 920-925.	4.0	12
49	On the instability effects in radiation-sensitive chalcogenide glasses. <i>Radiation Measurements</i> , 2007, 42, 941-943.	1.4	3
50	Radiation-induced defects in chalcogenide glasses characterized by combined optical spectroscopy, XPS and PALS methods. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2007, 4, 1147-1150.	0.8	1
51	A Study of Reversible ¹³⁷ I-Induced Structural Transformations in Vitreous Ge _{23.5} Sb _{11.8} S _{64.7} by High-Resolution X-ray Photoelectron Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2006, 110, 22930-22934.	2.6	24
52	An XPS study of the early stages of silver photodiffusion in Ag/a-As ₂ S ₃ films. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 562-566.	3.1	36
53	Development of chalcogenide glass photoresists for gray scale lithography. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 589-594.	3.1	42
54	Threshold restoration effects in ¹³⁷ I-irradiated chalcogenide glasses. <i>Journal of Non-Crystalline Solids</i> , 2005, 351, 993-997.	3.1	16

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55	Nanovolume positron traps in glassy-like As ₂ Se ₃ . Journal of Non-Crystalline Solids, 2005, 351, 1077-1081.	3.1	9
56	Modified Positron Annihilation Model for Glassy-Like As ₂ Se ₃ . Acta Physica Polonica A, 2005, 107, 832-836.	0.5	1
57	A nanoscale characterisation of extended defects in glassy-like As ₂ Se ₃ semiconductors with PAL technique. Physica B: Condensed Matter, 2003, 340-342, 960-964.	2.7	3
58	Positron lifetime study of native vacancy-like defects in chalcogenide glasses. Radiation Physics and Chemistry, 2003, 68, 557-559.	2.8	3
59	Coordination positron-trapping centers in vitreous chalcogenide semiconductors. Physica Status Solidi C: Current Topics in Solid State Physics, 2003, 0, 795-798.	0.8	0
60	Effect of Co ⁶⁰ Î ³ -irradiation on the optical properties of As-Ge-S glasses. Journal of Non-Crystalline Solids, 2003, 326-327, 130-134.	3.1	12
61	Interpretation of Radiation-Induced Phenomena in Chalcogenide Glasses of Ge-Sb-S System Using Free Volume and Covalent Chemical Bonds Concepts. Solid State Phenomena, 2003, 90-91, 241-246.	0.3	3
62	Compositional Trends of Radiation-Induced Effects in Ternary Systems of Chalcogenide Glasses. Radiation Effects and Defects in Solids, 2003, 158, 391-397.	1.2	1
63	<title>Phenomenological model of radiation-induced optical effects in Sb ₂ S ₃ -GeS ₂ chalcogenide glasses</title>. , 2003, , .		
64	Application of Positron Annihilation Lifetime Technique for Î ³ -Irradiation Stresses Study in Chalcogenide Vitreous Semiconductors. Advanced Engineering Materials, 2002, 4, 571-574.	3.5	6
65	On the problem of relaxation for radiation-induced optical effects in some ternary chalcogenide glasses. Radiation Effects and Defects in Solids, 2001, 153, 211-219.	1.2	9
66	<title>Gamma irradiation effect on the optical properties of GexSb40-xS60 chalcogenide glasses</title>. , 2001, , .		5
67	Thermoelectrical degradation processes in NTC thermistors for in-rush current protection of electronic circuits. Microelectronics Reliability, 2001, 41, 773-777.	1.7	31
68	Technological modification of spinel-based CuxNi1-xCo2yMn2-yO4 ceramics. Journal of the European Ceramic Society, 2001, 21, 2067-2070.	5.7	23
69	<title>IR optical properties of Sb2S3-GeS2(Ge2S3) chalcogenide glasses and effect of gamma irradiation</title>. , 2001, , .		1
70	IR impurity absorption in Sb2S3-GeS2(Ge2S3) chalcogenide glasses. Infrared Physics and Technology, 2000, 41, 41-45.	2.9	22
71	Effect of gamma-irradiation on the optical properties of GexAs40-xS60 glasses. Physica B: Condensed Matter, 1999, 271, 242-247.	2.7	24
72	Thermal modification of ceramic composites based on manganese-containing cube spinels. Materials Letters, 1996, 29, 195-198.	2.6	9

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73	Radiation-induced changes of amorphous As ₂ S ₃ physical properties. Radiation Effects and Defects in Solids, 1995, 133, 1-4.	1.2	27
74	Reversible radiation effects in vitreous As ₂ S ₃ . I. changes of physical properties. Physica Status Solidi A, 1994, 144, 277-283.	1.7	22