Tamara Petkova

List of Publications by Year
in descending order

64 papers	426 citations	759233 12 h-index	839539 18 g-index
70 all docs	70 docs citations	70 times ranked	394 citing authors

#	Article	IF	Citations
1	Electrocatalytic activity of Pt and PtCo deposited on Ebonex by BH reduction. Electrochimica Acta, 2005, 50, 5444-5448.	5.2	47
2	Polarization-dependent, laser-induced anisotropic photocrystallization of some amorphous chalcogenide films. Applied Physics Letters, 1997, 71, 2118-2120.	3.3	43
3	Complex (As2S3)(100âˆ’)(AgI) chalcogenide glasses for gas sensors. Sensors and Actuators B: Chemical, 2009, 143, 395-399.	7.8	22
4	Laser-induced polarization-dependent photocrystallization of amorphous chalcogenide films. Journal of Non-Crystalline Solids, 1998, 227-230, 739-742.	3.1	17
5	Characterization of pulsed laser deposited chalcogenide thin layers. Applied Surface Science, 2009, 255, 5318-5321.	6.1	16
6	Structure of GeSe₄â€“In and GeSe₅â€“In glasses. Journal of Physics Condensed Matter, 2010, 22, 404205.	1.8	15
7	Laccaseâ€containing ureasilâ€“polymer composite as the sensing layer of an amperometric biosensor. Journal of Applied Polymer Science, 2017, 134, 45278.	2.6	14
8	Improvement of amperometric laccase biosensor using enzyme-immobilized gold nanoparticles coupling with ureasil polymer as a host matrix. Gold Bulletin, 2019, 52, 79-85.	2.4	14
9	Corrected physicochemical indices of mono- and dialkyl-aromatic hydrocarbons on squalane. Journal of Chromatography A, 1974, 91, 691-693.	3.7	12
10	Photoinduced changes by polarisation holographic recording in Se70Ag15I15 thin films. Journal of Non-Crystalline Solids, 1993, 164-166, 1203-1206.	3.1	12
11	Vibrational modes and structure of (AgI) (GeS1.5)100âˆ’ chalcohalide glasses. Journal of Non-Crystalline Solids, 2009, 355, 2063-2067.	3.1	12
12	Optical Properties of Thermally Evaporated (As2Se3)100-xAgx Thin Films. Physics Procedia, 2013, 44, 67-74.	1.2	12
13	Structural investigations of ternary chalcogenide glasses. Surface and Interface Analysis, 2004, 36, 880-883.	1.8	11
14	Structural studies on AsSeâ€“AgI glasses. Journal of Non-Crystalline Solids, 2007, 353, 2045-2051.	3.1	11
15	Glass formation in the Seî—¸ Agî—¸ I system. Materials Chemistry and Physics, 1991, 30, 55-59.	4.0	10
16	As-doped SnO2 thin films for use as large area position sensitive photodetector. Thin Solid Films, 2018, 653, 19-23.	1.8	10
17	Temperature coefficient of the physico-chemical index. Journal of Chromatography A, 1972, 74, 165-169.	3.7	9
18	Structural investigations of the Seâ€“Agâ€“I system. Journal of Non-Crystalline Solids, 2003, 326-327, 125-129.	3.1	9

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19	New organicâ€inorganic hybrid ureasilâ€based polymer and glassâ€polymer composites with ionâ€implanted silver nanoparticles. Physica Status Solidi C: Current Topics in Solid State Physics, 2012, 9, 2444-2447.	0.8	9
20	Kinetics of vacuum sublimation and condensation of films from the Se-Ag-I system. Thin Solid Films, 1991, 205, 25-28.	1.8	8
21	High pressure effects on the crystal and magnetic structures of Co3O4. Journal of Magnetism and Magnetic Materials, 2020, 508, 166874.	2.3	8
22	Spectroscopic studies of (AsSe)100âˆ’xAgx thin films. Applied Surface Science, 2009, 255, 9691-9694.	6.1	7
23	Novel chalcohalide glasses from the Geâ€“Sâ€“AgI system and some physicochemical features. Journal of Materials Science, 2007, 42, 9836-9840.	3.7	6
24	Structure and vibrational modes of AgI-doped AsSe glasses: Raman scattering and ab initio calculations. Journal of Solid State Chemistry, 2011, 184, 447-454.	2.9	6
25	Free-volume defects and microstructure in ion-conducting Ag/AgI-As2S3 glasses as revealed from positron annihilation and microhardness measurements. Solid State Ionics, 2011, 183, 16-19.	2.7	6
26	New Organic-Inorganic Hybrid Ureasil-Based Polymer Materials Studied by PALS and SEM Techniques. Materials Science Forum, 0, 733, 171-174.	0.3	6
27	Photoinduced changes in the selenium-silver-iodine system. The Journal of Physical Chemistry, 1992, 96, 8998-9001.	2.9	5
28	Glass-forming region and some properties of the glasses from the Te-Ag-I system. Materials Chemistry and Physics, 1993, 33, 233-238.	4.0	5
29	Structural model of thin (GeSe5)1-xTlxfilms. Semiconductor Science and Technology, 2000, 15, 331-334.	2.0	5
30	Structural and free volume characterization of solâ€“gel organicâ€“inorganic hybrids, obtained by coâ€condensation of two ureasilicate stoichiometric precursors. Journal of Applied Polymer Science, 2021, 138, 50615.	2.6	5
31	Network Properties of Ureasil-Based Polymer Matrixes for Construction of Amperometric Biosensors as Probed by PALS and Swelling Experiments. Acta Physica Polonica A, 2017, 132, 1515-1519.	0.5	4
32	Optical band-gap and activation energy of thin films from the Se-Ag-I and Te-Ag-I systems. Radiation Effects and Defects in Solids, 1995, 137, 183-186.	1.2	3
33	Some features of chalcohalide glassy Geâ€“Sâ€“AgI thin films. Journal of Physics and Chemistry of Solids, 2007, 68, 936-939.	4.0	3
34	Photoinduced changes in As-Se-Ag amorphous films. Journal of Physics: Conference Series, 2008, 113, 012018.	0.4	3
35	Reply on the â€œcritical comments on speculations with â€¦ free-volume defects â€¦ in ion-conducting Ag/AgIâ€“As2S3 glassesâ€¦â€ Solid State Ionics, 2013, 233, 107-109.	2.7	3
36	Ge-Chalcogenide Glasses â€“ Properties and Application as Optical Material. Key Engineering Materials, 2013, 538, 316-319.	0.4	3

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37	A structurally modified 85SiO2â€“9P2O5â€“6TiO2 system and its dynamic dielectric behaviorâ€“a starting point for hydrogen detection. Journal of Materials Research and Technology, 2021, 10, 624-631.	5.8	3
38	Relaxation processes in TiO2â€“V2O5â€“P2O5 glass-ceramics. Ceramics International, 2021, 47, 29047-29054.	4.8	3
39	Study of (As2Se3)100-X(AgI)X Thin Films Prepared by Pld and Vte Methods. NATO Science for Peace and Security Series B: Physics and Biophysics, 2009, , 329-334.	0.3	3
40	Atomic Structure of As34Se51Ag15 and As34Te51Ag15 Glasses Studied with Xrd, Nd and Exafs and Modeled with Rmc. NATO Science for Peace and Security Series B: Physics and Biophysics, 2009, , 341-351.	0.3	3
41	Influence of the preparation method on the As-Se-AgI thin films behaviour. Journal of Physics: Conference Series, 2008, 113, 012023.	0.4	2
42	Thermal Studies of Ge-Te-Ga Glasses. AIP Conference Proceedings, 2010, , .	0.4	2
43	Optical studies of (AsSe)100âˆ’x Sb x thin films. Applied Physics A: Materials Science and Processing, 2011, 104, 959-962.	2.3	2
44	Compositional dependence of the optical properties of silver containing As2Se3thin films. Journal of Physics: Conference Series, 2012, 356, 012028.	0.4	2
45	Controlling the Network Properties of Polymer Matrices for Improvement of Amperometric Enzyme Biosensors: Contribution of Positron Annihilation. Acta Physica Polonica A, 2020, 137, 246-249.	0.5	2
46	Temperature dependence of polarization holographic recording in thin films of Se70Ag15I15. Thin Solid Films, 1993, 226, 119-122.	1.8	1
47	Optical Behaviors of Novel Amorphous Ge â€" S â€" AgI Layers. Materials Science Forum, 2008, 567-568, 201-204.	0.3	1
48	Optical Behavior of (GeS1.5)1-x(AgI)x Glasses. Physics Procedia, 2013, 44, 108-113.	1.2	1
49	Glass forming ability of vitreous Geâ€Teâ€In system. Surface and Interface Analysis, 2014, 46, 1077-1080.	1.8	1
50	Ion-induced processes in polymer composite materials: Positron annihilation spectroscopy in combination with UV-Vis absorption and Raman spectroscopy. AIP Conference Proceedings, 2019, , .	0.4	1
51	Influence of an electrical field on optical recording in chalco-halide glasses. Journal of Non-Crystalline Solids, 1998, 227-230, 748-751.	3.1	0
52	Electrical and optical properties of Ag2âˆ’2xZnxTe thin films. Materials Letters, 2002, 56, 9-13.	2.6	0
53	Thin As-Se-Sb Films as Potential Medium for Optics and Sensor Application. NATO Science for Peace and Security Series B: Physics and Biophysics, 2011, , 211-216.	0.3	0
54	Structure of AgI-AsSe Glasses by Raman Scattering and Ab Initio Calculations. NATO Science for Peace and Security Series B: Physics and Biophysics, 2011, , 217-223.	0.3	0

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55	Surface Development of (As2S3)1â€“x (AgI)x Thin Films for Gas Sensor Applications. NATO Science for Peace and Security Series B: Physics and Biophysics, 2011, , 203-209.	0.3	0
56	Mechanical Behaviors of (As2S3)100-x(AgI)x Bulk Glasses and Thin Films. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2012, 638, 1625-1625.	1.2	0
57	Effect of the preparation method on the optical properties of GeS<inf>1.2</inf> — AgI films. , 2014, , .		0
58	Doppler Broadening of the Annihilation Line Study of Organic-Inorganic Hybrid Ureasil-Based Composites. NATO Science for Peace and Security Series A: Chemistry and Biology, 2015, , 85-90.	0.5	0
59	LiNaSO4 dispersed NaNO3 composite â€“ A new solid electrolyte?. Materials Letters, 2018, 223, 29-32.	2.6	0
60	Ureasil-Based Polymer Matrices As Sensitive Layers for the Construction of Amperometric Biosensors. NATO Science for Peace and Security Series B: Physics and Biophysics, 2018, , 309-316.	0.3	0
61	Gas Sensor Based on Chalcohalide AgI-Containing Glasses. NATO Science for Peace and Security Series B: Physics and Biophysics, 2011, , 423-426.	0.3	0
62	Study of In2O3 Thin Films Doped with As as Active Layer in Position Sensitive Structures. NATO Science for Peace and Security Series B: Physics and Biophysics, 2020, , 123-130.	0.3	0
63	Physico-Chemical Characterization of Nanostructured Asâ€“Seâ€“Ag Glassy Materials. NATO Science for Peace and Security Series B: Physics and Biophysics, 2009, , 335-340.	0.3	0
64	Thermal Behavior of Novel (GeS2)1-X(AgI)X Glasses. NATO Science for Peace and Security Series B: Physics and Biophysics, 2009, , 353-356.	0.3	0