

# Neeraj Mehta

## List of Publications by Year in descending order

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156  
papers

1,532  
citations

393982

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476904

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docs citations

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times ranked

773  
citing authors

#	ARTICLE	IF	CITATIONS
1	Kinematics of glass to crystal phase transformation in novel multi-component glassy Se $_{80}$ Te $_{10}$ Sn $_x$ M (M = Tl, Pb, Bi, Sb) alloys. <i>Journal of Non-Crystalline Solids</i> , 2022, 575, 121171.	1.0	1
2	Studies of low-temperature electrical measurements in some multicomponent selenium rich glassy alloys: Role of silver modifier. <i>Journal of Non-Crystalline Solids</i> , 2022, 575, 121171.	1.5	2
3	Peculiarities of resistive switching in thin films of glassy SeTeSnGe system. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2022, 276, 115561.	1.7	7
4	Study of some thermo-mechanical parameters in Se $_{70}$ Te $_{30}$ -xMx (x=0, 2; M=Cd, Ag, and Zn) alloys. <i>Chinese Journal of Physics</i> , 2022, 77, 1123-1129.	2.0	1
5	Study of optical bandgap and other related optical properties in amorphous thin films of some optical materials of Se-Te-Sn-Ag system. <i>Optics and Laser Technology</i> , 2022, 150, 107985.	2.2	4
6	High-field conduction in fresh and aged samples of Se and As $_2$ Se $_3$ glasses. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 15107-15115.	1.1	0
7	Investigation of optical band-gap and related optical properties in thin-films of Ge containing Se-Te-Sn alloys. <i>Journal of Non-Crystalline Solids</i> , 2021, 551, 120399.	1.5	14
8	Addendum to "Some novel results of physical aging studies in glassy Selenium" [Mater. Sci. Eng. 259 (2020) 114598]. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021, 263, 114802.	1.7	0
9	A new approach for nano-structuring of glassy selenium (g-Se) using silver nanoparticles (AgNPs) as precursor. <i>Materials Today Communications</i> , 2021, 26, 101719.	0.9	3
10	Estimation of density of charged defect states in some glasses of SeTeSnPb system using low-temperature d.c. conductivity measurements. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 9509-9516.	1.1	0
11	Role of some modifiers on the thermo-mechanical properties of Se $_{90}$ In $_{10}$ chalcogenide glass (ChGs). <i>EPJ Applied Physics</i> , 2021, 94, 31101.	0.3	0
12	Invariance of Meyer-Neldel compensation rule in thermally activated d.c. and a.c. conduction for as-prepared and aged glassy Selenium and As $_2$ Se $_3$ glass. <i>Solid State Sciences</i> , 2021, 117, 106615.	1.5	2
13	Ground improvement using chemical methods: A review. <i>Heliyon</i> , 2021, 7, e07678.	1.4	17
14	Response to "Comment on 'Insights into the physical aging in chalcogenide glasses: A case study of a first-generation As $_2$ Se $_3$ binary glass'" [Coord. Chem. Rev. 442 (2021) 213992]. <i>Coordination Chemistry Reviews</i> , 2021, 449, 214205.	9.5	0
15	Phenomenology of electrical switching behavior of SeTeSnCd thin films for memory applications. <i>Journal of Non-Crystalline Solids</i> , 2021, 571, 121025.	1.5	3
16	Signature Of stiffness transition in electrical behaviour of Se-Te-Sn-Ge glassy alloys. <i>Philosophical Magazine</i> , 2021, 101, 2528-2540.	0.7	1
17	Correlation between threshold voltage and its pre-exponential factor in resistive switching. <i>Materials Chemistry and Physics</i> , 2020, 241, 122326.	2.0	7
18	Study of Metal-Induced Effects of Cd, Sb and Zn on d.c./a.c. Conduction and Photoconduction in Binary Se $_{70}$ Te $_{30}$ Glass. <i>Journal of Electronic Materials</i> , 2020, 49, 861-868.	1.0	1

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19	Dielectric behavior of amorphous thin films of Se <sup>82</sup> Te <sup>18</sup> Sn-Ge system. Solid State Sciences, 2020, 104, 106289.	1.5	9
20	Some novel results of physical aging studies in glassy selenium. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2020, 259, 114598.	1.7	7
21	Effect of Sn content on some optical properties of Se <sub>90</sub> Pb <sub>10-x</sub> thin films. Optical Materials, 2020, 100, 109672.	1.7	2
22	Composition dependence of thermo-dynamical and thermo-mechanical properties in SeTeSnGe chalcogenide glasses (ChGs). EPJ Applied Physics, 2020, 90, 31101.	0.3	1
23	Novel explanation for thermal analysis of glass transition. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2019, 247, 114378.	1.7	10
24	Studies of high field conduction and resistive switching in Se <sub>78-x</sub> Te <sub>20</sub> Sn <sub>2</sub> Gex (0 ≤ x ≤ 6) bulk glasses using current-voltage characteristics. Journal of Alloys and Compounds, 2019, 806, 660-667.	2.8	12
25	Tuning of dielectric properties in Se <sub>78</sub> Te <sub>20</sub> Sn <sub>2</sub> glass using UV-Vis-IR lasers. Optical Materials, 2019, 95, 109198.	1.7	8
26	Effect of Ag and <sup>137</sup> I-ray irradiation on the specific heat of glass transition of Se <sub>78</sub> Te <sub>20</sub> Sn <sub>2</sub> glassy alloy. Materials Research Express, 2019, 6, 095201.	0.8	1
27	Analysis of physicochemical properties in covalent network chalcogenide glasses (ChGs): critical review of theoretical modeling of chemical bond approach. SN Applied Sciences, 2019, 1, 1.	1.5	14
28	Signature of rigidity percolation effect in dielectric behavior of germanium containing multi-component chalcogenide glasses (ChGs). Ceramics International, 2019, 45, 16279-16287.	2.3	11
29	Synthesis and thermal characterization of novel phase change materials (PCMs) of the Se <sup>82</sup> Te <sup>18</sup> Sn <sup>0</sup> Ge (STSC) multi-component system: calorimetric studies of the glass/crystal phase transition. Dalton Transactions, 2019, 48, 4719-4729.	1.6	10
30	Characterization of novel SeTeSn Chalcogenide Glassy Alloy (STS ChGA) as shielding material: Case study of its resistance against <sup>137</sup> I-ray irradiation for nuclear waste immobilization applications. Journal of Environmental Chemical Engineering, 2019, 7, 103032.	3.3	5
31	Laser-induced self-organization in Se <sup>82</sup> Te <sup>18</sup> Sn <sup>0</sup> Cd glassy semiconductor for developing novel light-sensing dielectrics. Progress in Natural Science: Materials International, 2019, 29, 541-548.	1.8	6
32	Investigations of crystallization kinetics of Se <sub>82-x</sub> Te <sub>18</sub> Sb <sub>x</sub> (x=0,) Tj ETQq0 0.0 rgBT /Qverlock 10		
33	Crystallization kinetics and Avrami index of Sb-doped Se <sup>82</sup> Te <sup>18</sup> Sn chalcogenide glasses. Phase Transitions, 2018, 91, 490-502.	0.6	6
34	Laser-induced persistent photo-dielectric effects in Se <sup>82</sup> Te <sup>18</sup> Sn <sup>0</sup> Cd chalcogenide glassy semiconductors (STSC ChGs). Journal of Materials Chemistry C, 2018, 6, 2747-2759.	2.7	9
35	Optical characterization of tin containing novel chalcogen rich glassy semiconductors. Optical and Quantum Electronics, 2018, 50, 1.	1.5	4
36	Thermal analysis of cadmium addition on the glass transition and crystallization kinetics of Se <sup>82</sup> Te <sup>18</sup> Sn glassy network. Journal of Thermal Analysis and Calorimetry, 2018, 131, 2491-2501.	2.0	8

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37	Correlation between structural and thermodynamic properties of some selenium based phase-change materials. Journal of Physics and Chemistry of Solids, 2018, 115, 113-118.	1.9	4
38	Effect of antimony on glass transition and thermal stability of $\text{Se}_{78-x}\text{Te}_{18}\text{Sn}_2\text{Sb}_x$ ( $x=0, 2, 4$ and $6$ At.%) multicomponent glassy alloys. Journal of Thermal Analysis and Calorimetry, 2018, 134, 915-922.	2.0	5
39	Molecular structure of Se-rich amorphous films. Progress in Solid State Chemistry, 2018, 49, 1-15.	3.9	9
40	Effect of laser irradiation on micro-hardness, compactness and Raman spectrum of glassy $\text{Se}_{76}\text{Te}_{20}\text{Sn}_2\text{Cd}_2$ alloy. Journal of Materials Research and Technology, 2018, 7, 39-44.	2.6	1
41	Investigation of Some Physico-Chemical Properties in Multi-Component $\text{Se}_{60-x}\text{Te}_{20}\text{Sn}_{20}\text{Sb}_x$ (0 ≤ x ≤ 6) Quaternary Chalcogenide Glassy System. Glass Physics and Chemistry, 2018, 44, 542-550.	0.2	7
42	Comprehensive studies of temperature and frequency dependent dielectric and a.c. conducting parameters in third generation multi-component glasses. RSC Advances, 2018, 8, 25468-25479.	1.7	14
43	Unique supramolecular assembly through Langmuir-Blodgett (LB) technique. Heliyon, 2018, 4, e01038.	1.4	70
44	Effect of incorporation of different plasticizers on structural and ion transport properties of PVA-LiClO <sub>4</sub> based electrolytes. Heliyon, 2018, 4, e00992.	1.4	54
45	Dielectric relaxation and thermally activated a.c. conduction in (PVDF)/(rGO) nano-composites: role of rGO over different fillers. Journal of Materials Science: Materials in Electronics, 2018, 29, 18271-18281.	1.1	26
46	Enhancement of polaron-hopping-based a.c. conduction in semiconducting STS ( $\text{Se}_{60-x}\text{Te}_{20}\text{Sn}_{20}$ ) glass by silver incorporation. Dalton Transactions, 2018, 47, 10187-10194.	1.6	5
47	Signature of Meyer-Neldel compensation rule in iso-conversional crystallization under the influence of <sup>137</sup> I-ray irradiation. Ceramics International, 2018, 44, 20827-20834.	2.3	3
48	Effect of Sb incorporation on thermo-mechanical properties of amorphous Se-Te-Sn alloys. Materials Research Express, 2018, 5, 065206.	0.8	2
49	Iso-conversional kinetic analysis of quaternary glass re-crystallization. Heliyon, 2017, 3, e00249.	1.4	7
50	Correlation between some thermo-mechanical and physico-chemical properties in multi-component glasses of Se-Te-Sn-Cd system. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	1.1	5
51	Studies of dielectric relaxation and thermally activated a.c. conduction in $\text{Se}_{78-x}\text{Te}_{20}\text{Sn}_2\text{Cdx}$ (0 ≤ x ≤ 6) chalcogenide glass. Journal of Materials Science: Materials in Electronics, 2017, 28, 5634-5644.	1.1	11
52	Study of dielectric relaxation and thermally activated a.c. conduction in lead containing topological glassy semiconductors. RSC Advances, 2017, 7, 19085-19097.	1.7	35
53	Calorimetric studies of crystallization for multi-component glasses of $\text{Se}_{60-x}\text{Te}_{20}\text{Sn}_{20}\text{Ag}_x$ (STSA) system using model-free and model-fitting non-isothermal methods. Journal of Thermal Analysis and Calorimetry, 2017, 128, 907-914.	2.0	10
54	Observation of switching behavior in some multi-component glasses of Se-Te-Sn-Pb system. Materials Letters, 2016, 178, 178-180.	1.3	12

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55	Thermal analysis of specific heat measurements in glassy $\text{Se}_{80}\text{Te}_{20}\text{Sb}_x$ alloys in glass transition region. <i>Phase Transitions</i> , 2016, 89, 84-93.	0.6	3
56	Laser-induced effects on dielectric relaxation of multi-component $\text{Se}_{76}\text{Te}_{20}\text{Sn}_2\text{Cd}_2$ chalcogenide glass. <i>Materials Chemistry and Physics</i> , 2016, 178, 39-48.	2.0	5
57	Experimental studies of dielectric relaxation and thermally activated a.c. conduction in $\text{Se}_{90}\text{Cd}_{10}\text{Sb}_x$ chalcogenide glassy alloys using correlated barrier hopping model. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 12036-12049.	1.1	11
58	Dielectric relaxation in glassy $\text{Se}_{90}\text{Cd}_6\text{In}_4$ . <i>Electronics Letters</i> , 2016, 52, 1548-1550.	0.5	5
59	Study of dielectric relaxation and thermally activated a.c. conduction in glassy $\text{Se}_{70}\text{Te}_{30}$ and $\text{Se}_{70}\text{Te}_{28}\text{M}_2$ ( $\text{M} = \text{Ag, Zn and Tl}$ ) chalcogenide glasses. <i>Journal of Applied Physics</i> , 2016, 119, 074301.	1.0	7843
60	Some New Observations on Activation Energy of Crystal Growth for Thermally Activated Crystallization. <i>Journal of Physical Chemistry B</i> , 2016, 120, 1175-1182.	1.2	17
61	Role of Bi incorporation on glass transition kinetics in glassy $\text{Se}_{78}\text{Te}_{20}\text{Sn}_2$ alloy. <i>Phase Transitions</i> , 2016, 89, 1103-1118.	0.6	3
62	Investigation of some thermo-mechanical and dielectric properties in multi-component chalcogenide glasses of $\text{Se}_{60}\text{Te}_{20}\text{Sn}_{10}\text{Ag}_{10}$ quaternary system. <i>Journal of Alloys and Compounds</i> , 2016, 658, 533-542.	2.8	20
63	Crystallization kinetics of glassy $\text{Se}_{90}\text{In}_{10}\text{-xAg}_x$ alloys: Observation of Mayer-Neldel rule. <i>Processing and Application of Ceramics</i> , 2016, 10, 137-142.	0.4	1
64	Study of zinc incorporation on the non-isothermal crystallization in glassy selenium using iso-conversional approach. <i>Materials Letters</i> , 2015, 138, 171-174.	1.3	3
65	Composition dependence of some thermo-physical properties of multi-component $\text{Se}_{78}\text{Te}_{20}\text{Sn}_2\text{Bi}_x$ ( $0 \leq x \leq 6$ ) chalcogenide glasses. <i>Journal of Materials Science</i> , 2015, 50, 210-218.	1.7	3
66	Estimation of Density of Localized States in Amorphous $\text{Se}_{80}\text{Te}_{20}$ and $\text{Se}_{80}\text{Te}_{10}\text{M}_{10}$ ( $\text{M} = \text{Cd, In, Sb}$ ) Alloys Using AC Conductivity Measurements. <i>Journal of Electronic Materials</i> , 2015, 44, 2585-2591.	1.0	7
67	Determination of density of defect states in glassy $\text{Se}_{98}\text{M}_2$ ( $\text{M} = \text{Ag, Cd and Sn}$ ) alloys using a.c. conductivity measurements. <i>Measurement: Journal of the International Measurement Confederation</i> , 2015, 75, 69-75.	2.5	23
68	A Chronological Overview of Phase-Change Materials. <i>Reviews in Advanced Sciences and Engineering</i> , 2015, 4, 173-182.	0.6	22
69	Iso-conversional approach for study of glass transition and crystallization kinetics of ternary glassy $\text{Se}_{98}\text{Ag}_2\text{In}_x$ ( $x=0, 2, 4, 6$ ) system. <i>Journal of Alloys and Compounds</i> , 2014, 587, 565-572.	2.8	6
70	Determination of kinetics parameters of glass transition in glassy Se and glassy $\text{Se}_{98}\text{M}_2$ alloys using DSC technique. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 114, 597-603.	1.1	5
71	Thermal analysis for study of influence of Cd, In, and Sb on glass transition kinetics in glassy $\text{Se}_{80}\text{Te}_{20}$ alloy using DSC technique. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014, 115, 1273-1278.	2.0	5
72	Thermal transport, thermomechanical, and dielectric properties of chalcogenide $\text{Se}_{98}\text{Ag}_2\text{In}_x$ ( $x = 0, 2, 4, 6$ ) glasses. <i>Journal of Applied Physics</i> , 2014, 115, 074301.	0.4	1

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73	Effect of Tin Incorporation on Thermo-Mechanical Properties of Glassy Se <sub>80</sub> Te <sub>20</sub> Alloy. Chinese Physics Letters, 2014, 31, 036201.	1.3	0
74	Study of thermo-mechanical properties in glassy Se and Se <sub>98</sub> M <sub>2</sub> (M=In, Sb and Sn) alloys. Materials Letters, 2014, 121, 194-197.	1.3	11
75	Iso-conversional analysis of glass transition and crystallization in as-synthesis high yield of glassy Se <sub>98</sub> Cd <sub>2</sub> nanorods. Applied Nanoscience (Switzerland), 2013, 3, 271-280.	1.6	4
76	A Study of Some Thermophysical Parameters in Glassy $\text{Se}_{80}\text{Te}_{20}$ and $\text{Se}_{80}\text{Te}_{10}\text{M}_{10}$ (Cd, In, and) Tj BTQq0 0 0orgBT /Over		
77	Thermal characterization of Se <sub>78</sub> x Te <sub>20</sub> Sn <sub>2</sub> Pb <sub>x</sub> (0 ≤ x ≤ 6) glassies for phase change optical recording technique. Glass Physics and Chemistry, 2013, 39, 490-498.	0.2	8
78	Composition dependence of specific heat in Se <sub>80</sub> x Te <sub>20</sub> Sn <sub>x</sub> chalcogenide glasses. Glass Physics and Chemistry, 2013, 39, 372-376.	0.2	4
79	Laser-induced synthesis of selenium, silver and silver selenide nanocrystallites in amorphous Se <sub>98</sub> Ag <sub>2</sub> alloy. Philosophical Magazine Letters, 2013, 93, 174-181.	0.5	0
80	Study of thermo-mechanical properties of a-Se <sub>80</sub> Te <sub>20</sub> and a-Se <sub>80</sub> Te <sub>10</sub> M <sub>10</sub> (M=Cd, In, Sb) alloys. Materials Letters, 2013, 99, 35-37.	1.3	4
81	Analysis of composition dependence of some thermal transport properties in glassy Se <sub>80</sub> xTe <sub>20</sub> Sn <sub>x</sub> (0 ≤ x ≤ 10) alloys using transient plane source measurements. Measurement: Journal of the International Measurement Confederation, 2013, 46, 514-520.	2.5	7
82	Effect of Lead Incorporation on Some Thermo-Mechanical Properties of Glassy Se <sub>78</sub> Te <sub>20</sub> Sn <sub>2</sub> Alloy. Materials Focus, 2013, 2, 184-187.	0.4	5
83	Calorimetric study of specific heat in glassy SeTeSnBi system using MDSC technique: effect of Bi incorporation. Phase Transitions, 2013, 86, 971-976.	0.6	6
84	Calorimetric study of thermal crystallization kinetics in Se <sub>78</sub> Te <sub>20</sub> Sn <sub>2</sub> Pb <sub>x</sub> (0 ≤ x ≤ 6) alloys. EPJ Applied Physics, 2013, 62, 20106.	0.3	1
85	Kinematical Studies of Thermal Crystallization in Glassy Se <sub>78</sub> Te <sub>20</sub> Sn <sub>2</sub> Bi <sub>x</sub> (0 ≤ x ≤ 6) Alloys. Journal of Advanced Physics, 2013, 2, 163-169.	0.3	1
86	Observation of Dielectric Peaks in Glassy Se <sub>70</sub> Te <sub>20</sub> Sn <sub>10</sub> Alloy. Defect and Diffusion Forum, 2012, 329, 165-175.	0.4	5
87	Effect of some metallic additives (Ag, Cd, and Sn) on thermal transport properties of a-Se. Journal of Thermal Analysis and Calorimetry, 2012, 109, 915-920.	2.0	6
88	Analysis of dielectric relaxation in glassy Se and Se <sub>98</sub> M <sub>2</sub> (M = Ag, Cd and Sn) alloys. EPJ Applied Physics, 2012, 59, 10101.	0.3	5
89	Determination of specific heat in multi-component chalcogenide glasses of SeTeSnPb system using modulated differential scanning calorimetry. Materials Letters, 2012, 86, 54-57.	1.3	15
90	Structural characterization of light-induced crystal growth in Se <sub>98</sub> Sb <sub>2</sub> chalcogenide glass. Journal of Non-Crystalline Solids, 2012, 358, 776-781.	1.5	3

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91	Critical analysis of endo-thermal effect in the glass transition process in chalcogenide glasses. Journal of Non-Crystalline Solids, 2012, 358, 2783-2787.	1.5	5
92	Theoretical prediction of some physical parameters in glassy $\text{Se}_{80}\text{Te}_{20}$ and glassy $\text{Se}_{80}\text{Te}_{10}\text{M}_{10}$ ( $M = \text{Cd, In, Sb}$ ) alloys. EPJ Applied Physics, 2012, 59, 20102.	0.3	2
93	Recent Advances in Chalcogenide Glasses for Multifunctional Applications in Fiber Optics. Recent Patents on Materials Science, 2012, 6, 59-67.	0.5	18
94	Explanation of Meyer-Neldel rule in the thermally activated a.c. conduction in some chalcogenide glasses using correlated barrier hopping model. Journal of Materials Science, 2012, 47, 6693-6698.	1.7	4
95	Iso-conversional kinetic study of non-isothermal crystallization in glassy $\text{Se}_{98}\text{Ag}_2$ alloy. Journal of Thermal Analysis and Calorimetry, 2012, 109, 247-253.	2.0	10
96	Investigation of a.c. conductivity measurements in $\text{a-Se}_{80}\text{Te}_{20}$ and $\text{a-Se}_{80}\text{Te}_{10}\text{M}_{10}$ ( $M = \text{Cd, In, Sb}$ ) alloys using correlated barrier hopping model. Current Applied Physics, 2012, 12, 405-412.	1.1	41
97	Kinetic parameters of glass transition and crystallization for glassy Se and glassy $\text{Se}_{98}\text{M}_2$ ( $M = \text{In, Sb}$ ) alloys. Journal of Thermal Analysis and Calorimetry, 2012, 109, 247-253.	2.0	12
98	Metal-induced effects on the glass transition kinetics of glassy $\text{Se}_{70}\text{Te}_{30}$ alloy. Phase Transitions, 2011, 84, 1064-1074.	0.6	5
99	Dependence of activation energy and pre-exponential factor on audio frequency in glassy $\text{Se}_{80}\text{Te}_{20}\text{Sn}_x$ alloys. Journal of Alloys and Compounds, 2011, 509, 3468-3472.	2.8	22
100	Study of thermally activated a.c. conduction in $\text{a-Se}_{80}\text{Te}_{20}$ and $\text{a-Se}_{80}\text{Te}_{19.5}\text{M}_{0.5}$ ( $M = \text{Cd, In, Sb}$ ) alloys. Solid State Sciences, 2011, 13, 257-262.	1.5	8
101	Effect of some metallic additives (Ag, Cd, and Zn) on the crystallization kinetics of glassy $\text{Se}_{70}\text{Te}_{30}$ alloy. Materials Chemistry and Physics, 2011, 127, 208-213.	2.0	14
102	Calorimetric studies of non-isothermal crystallization in amorphous $\text{Cu}_x\text{Ti}_{100-x}$ alloys. Bulletin of Materials Science, 2011, 34, 1459-1463.	0.8	0
103	Dielectric relaxation in $\text{Se}_{80}\text{Te}_{20}\text{Sn}_x$ chalcogenide glasses. Journal of Materials Science, 2011, 46, 4509-4516.	1.7	51
104	Effect of some chemical modifiers on the glass/crystal transformation in binary $\text{Se}_{90}\text{In}_{10}$ alloy. Journal of Thermal Analysis and Calorimetry, 2011, 103, 903-909.	2.0	8
105	Estimation of the density of defect states in glassy $\text{Se}_{80}\text{Te}_{20}\text{Sn}_x$ alloys using ac conductivity measurements. Physica Scripta, 2011, 84, 015605.	1.2	7
106	Effect of high energetic ionic irradiation in thermally activated crystallization of $\text{Co}_{66}\text{Si}_{15}\text{B}_{14}\text{Fe}_4\text{Ni}_1$ metallic glass: observation of the MN rule. Radiation Effects and Defects in Solids, 2011, 166, 251-257.	0.4	0
107	Calorimetric studies of thermal crystallization in glassy $\text{Se}_{80}\text{Te}_{20}\text{Sn}_x$ ( $0 \leq x \leq 10$ ) alloys. Physica Scripta, 2011, 83, 065602.	2.2	20
108	Poole-Frenkel photoconductivity in amorphous $\text{Se}_{75}\text{Te}_{20}\text{Sb}_5$ thin films. Glass Physics and Chemistry, 2010, 36, 313-316.	0.2	2

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109	Observation of Meyer-Neldel rule in thermally activated Poole-Frenkel photoconduction in a-Se <sub>70</sub> Te <sub>30</sub> <sup>x</sup> Cd <sub>x</sub> thin films. <i>Pramana - Journal of Physics</i> , 2010, 74, 475-480.	0.9	2
110	Effect of In and Zn additives on some thermal properties of a-Se. <i>Solid State Sciences</i> , 2010, 12, 963-965.	1.5	4
111	Further MN rule in thermally activated a.c. conduction of Se <sup>x</sup> Te <sup>1-x</sup> Sb chalcogenide glasses. <i>Vacuum</i> , 2010, 84, 1176-1179.	1.6	3
112	Calorimetric studies of crystallisation kinetics of Se <sub>75</sub> Te <sub>15</sub> <sup>x</sup> Cd <sub>10</sub> In <sub>x</sub> multi-component chalcogenide glasses using non-isothermal DSC. <i>Philosophical Magazine Letters</i> , 2010, 90, 547-557.	0.5	10
113	Calorimetric studies of the glass transition phenomenon in glassy Se <sub>75</sub> Te <sub>15</sub> <sup>x</sup> Cd <sub>10</sub> In <sub>x</sub> alloys using the non-isothermal DSC technique. <i>Physica Scripta</i> , 2010, 82, 045601.	1.2	6
114	Effect of lithium ion irradiation on the glass transition kinetics of Se <sub>98</sub> In <sub>2</sub> chalcogenide glass. <i>Phase Transitions</i> , 2010, 83, 1-9.	0.6	2
115	Meyer-Neldel rule in chalcogenide glasses: Recent observations and their consequences. <i>Current Opinion in Solid State and Materials Science</i> , 2010, 14, 95-106.	5.6	28
116	Further Meyer-Neldel Rule for Thermally Activated High Field Conduction in Thin Films of Glassy Se <sub>100</sub> <sup>x</sup> Sb <sub>x</sub> Alloys. <i>International Journal of Applied Glass Science</i> , 2010, 1, 172-179.	1.0	3
117	Effect of indium additive on glass-forming ability and thermal stability of Se <sup>x</sup> Zn <sup>1-x</sup> Te chalcogenide glasses. <i>Philosophical Magazine Letters</i> , 2010, 90, 201-208.	0.5	24
118	Effect of lithium-ion irradiation on the crystallization kinetics of glassy Se <sub>98</sub> In <sub>2</sub> . <i>Philosophical Magazine Letters</i> , 2009, 89, 126-135.	0.5	0
119	Amorphous to crystalline phase transition in glassy Se <sub>65</sub> Te <sub>20</sub> Ag <sub>15</sub> alloy. <i>Phase Transitions</i> , 2009, 82, 75-86.	0.6	5
120	Effect of In additive on the photosensitivity of glassy Se <sub>80</sub> Te <sub>20</sub> alloy. <i>Journal of Modern Optics</i> , 2009, 56, 1272-1275.	0.6	2
121	Observation of inverse Meyer-Neldel rule in thermally activated crystallization of a hybrid composite of phenol formaldehyde. <i>Philosophical Magazine</i> , 2009, 89, 797-806.	0.7	0
122	Effect of ionic irradiation on the pre-exponential factor of thermally activated crystallization in Co <sub>66</sub> Si <sub>16</sub> B <sub>12</sub> Fe <sub>4</sub> Mo <sub>2</sub> metallic glass. <i>Journal of Physics and Chemistry of Solids</i> , 2009, 70, 811-815.	1.9	4
123	Further MN rule for thermally activated high field conduction in bulk samples of glassy Se <sub>100</sub> <sup>x</sup> Sb <sub>x</sub> alloys. <i>Vacuum</i> , 2009, 83, 1169-1173.	1.6	9
124	On the glass transition phenomenon in Se <sup>x</sup> Te and Se <sup>x</sup> Ge based ternary chalcogenide glasses. <i>Physica B: Condensed Matter</i> , 2009, 404, 1835-1839.	1.3	14
125	Co-relation between pre-exponential factor and activation energy of non-isothermal crystallization for virgin and irradiated Fe <sub>78</sub> B <sub>13</sub> Si <sub>9</sub> metallic glass. <i>Physica B: Condensed Matter</i> , 2009, 404, 2184-2188.	1.3	5
126	Composition dependence of thermal stability, micro-hardness and compactness in glassy Se <sub>90</sub> In <sub>10</sub> <sup>x</sup> Gex alloys. <i>Physica B: Condensed Matter</i> , 2009, 404, 3761-3765.	1.3	7



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127	Calorimetric studies of glass transition phenomenon in glassy $\text{Se}_{80-x}\text{Te}_{20}\text{Sn}_x$ alloys. <i>Physica Scripta</i> , 2009, 80, 065602.	1.2	24
128	Effect of Sb and Sn additives on the activation energies of glass transition and crystallization in binary $\text{Se}_{85}\text{Te}_{15}$ alloy. <i>Phase Transitions</i> , 2009, 82, 43-51.	0.6	8
129	Electrical properties of $\text{Se}_{60}\text{Zn}_{40}$ chalcogenide glasses. <i>EPJ Applied Physics</i> , 2009, 46, 20303.	0.3	6
130	Observation of compensation effect for isothermal crystallization in glassy $\text{Se}_{80-x}\text{Ge}_{20}\text{In}_x$ and $\text{Se}_{78-x}\text{Ge}_{22}\text{Bi}_x$ alloys. <i>Russian Physics Journal</i> , 2008, 51, 270-276.	0.2	0
131	Comparative analysis of some thermo-physical properties of $\text{Se}_{90}\text{Zn}_{10}$ and $\text{Te}_{90}\text{Zn}_{10}$ alloys. <i>Thermochimica Acta</i> , 2008, 475, 80-82.	1.2	5
132	Dielectric parameters in $\text{Se}_{70}\text{Te}_{30}$ and $\text{Se}_{70}\text{Te}_{28}\text{Zn}_2$ chalcogenide glasses. <i>Physica B: Condensed Matter</i> , 2008, 403, 2910-2916.	1.3	14
133	Compensation effect in thermally activated photoconduction in amorphous thin films of $\text{Se}_{75}\text{In}_{25-x}\text{Pb}_x$ alloys. <i>Philosophical Magazine</i> , 2008, 88, 61-70.	0.7	16
134	Investigation of the Meyer-Neldel rule for AC conduction in glassy $\text{Se}_{100-x}\text{Te}_x$ alloys. <i>Glass Physics and Chemistry</i> , 2008, 34, 42-46.	0.2	3
135	Pre-exponential factor for non-isothermal crystallization of glassy $\text{Se}_{85-x}\text{Te}_{15}\text{Sb}_x(\text{O}_2\text{ or }10)$ alloys. <i>Philosophical Magazine</i> , 2008, 88, 1411-1421.	0.7	4
136	Composition dependence of the activation energy of the glass transition in some chalcogenide glasses. <i>Philosophical Magazine Letters</i> , 2008, 88, 793-800.	0.5	3
137	Effect of Zn incorporation on the a.c. conductivity of glassy $\text{Se}_{70}\text{Te}_{30}$ alloy. <i>EPJ Applied Physics</i> , 2008, 44, 217-221.	0.3	3
138	A.C. conduction in glassy $\text{Se}_{70}\text{Te}_{30-x}\text{Sb}_x$ alloys: observation of Meyer-Neldel rule. <i>EPJ Applied Physics</i> , 2007, 37, 123-128.	0.3	12
139	Thermal characterization of $\text{Se}_{78}\text{Ge}_{22}$ and $\text{Se}_{68}\text{Ge}_{22}\text{M}_{10}$ (M=Cd, In, Pb) chalcogenide glasses. <i>Philosophical Magazine</i> , 2007, 87, 97-109.	0.7	7
140	Correlation between glass forming tendency and rate of crystallization in glassy $\text{Se}_{100-x}\text{Te}_x$ and $\text{Se}_{100-x}\text{In}_x$ alloys. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2007, 204, 3108-3115.	0.8	5
141	Chemical bond approach to activation energy of crystallization in some $\text{Se}_{60}\text{Ge}_{40}\text{M}$ (M=Bi, In) chalcogenide glasses. <i>Materials Letters</i> , 2007, 61, 837-841.	1.3	22
142	A.C. conduction in glassy $\text{Se}_{68}\text{Ge}_{22}\text{Cd}_{10}$ alloy: Observation of MN rule. <i>Materials Letters</i> , 2007, 61, 3167-3170.	1.3	11
143	Comparative analysis of calorimetric studies in $\text{Se}_{90}\text{M}_{10}$ (M=In, Te, Sb) chalcogenide glasses. <i>Journal of Thermal Analysis and Calorimetry</i> , 2007, 87, 345-350.	2.0	32
144	Pre-exponential factor of Arrhenius equation for the isothermal crystallization of some $\text{Se}_{60}\text{Ge}_{40}$ , $\text{Se}_{60}\text{In}_{40}$ and $\text{Se}_{60}\text{Te}_{40}$ chalcogenide glasses. <i>Journal of Materials Science</i> , 2007, 42, 490-494.	1.7	18

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145	Kinetic parameters of crystallization in glassy Se <sub>100-x</sub> Sb <sub>x</sub> alloys. Physica Status Solidi (A) Applications and Materials Science, 2006, 203, 236-246.	0.8	18
146	A study of thermal crystallization in glassy Se <sub>80</sub> Te <sub>20</sub> and Se <sub>80</sub> In <sub>20</sub> using DSC technique. Journal of Thermal Analysis and Calorimetry, 2006, 83, 401-405.	2.0	18
147	Studies of crystallization kinetics in a-Se <sub>80</sub> Te <sub>20</sub> Cd <sub>x</sub> and a-Se <sub>80</sub> Te <sub>20</sub> Gex alloys using D.C. conductivity measurements. Journal of Thermal Analysis and Calorimetry, 2006, 83, 669-673.	2.0	27
148	Observation of phase separation in some Se-Te-Ag chalcogenide glasses. Materials Chemistry and Physics, 2006, 96, 73-78.	2.0	19
149	Glass forming ability and thermal stability of some Se-Sb glassy alloys. Materials Research Bulletin, 2006, 41, 1664-1672.	2.7	98
150	Applicability of Meyer-Neldel rule for isothermal crystallization in glassy Se <sub>70</sub> Te <sub>30</sub> -xSb <sub>x</sub> alloys. Materials Letters, 2006, 60, 725-729.	1.3	13
151	Comparative Analysis of Photo-Crystallization in a-Se 95 Te 5 and a-Se 95 In 5 Alloys. Chinese Physics Letters, 2006, 23, 3061-3064.	1.3	2
152	Study of electrical properties of glassy Se <sub>100-x</sub> Te <sub>x</sub> alloys. Bulletin of Materials Science, 2005, 28, 579-583.	0.8	10
153	Glass transition kinetics of some Se-Te-Ag chalcogenide glasses. Journal of Thermal Analysis and Calorimetry, 2005, 82, 45-49.	2.0	9
154	Investigation of compensation effect for isothermal crystallization in glassy Se <sub>80</sub> Te <sub>20</sub> M <sub>x</sub> (M = Cd, In, Ag) alloys. Journal of Thermal Analysis and Calorimetry, 2005, 82, 1-6.	1.3	6
155	Calorimetric studies of glass forming ability and thermal stability in a-Se <sub>80</sub> Te <sub>19.5</sub> M <sub>0.5</sub> (M = Ag, Cd, In, Ag) alloys. Journal of Thermal Analysis and Calorimetry, 2005, 82, 1-6.	0.3	19
156	Thermal characterization of glassy Se <sub>70</sub> Te <sub>20</sub> M <sub>10</sub> using DSC technique. Journal of Materials Science, 2004, 39, 6433-6437.	1.7	20