

Spyros N Yannopoulos

List of Publications by Year in descending order

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169
papers

4,379
citations

94433

37
h-index

149698

56
g-index

171
all docs

171
docs citations

171
times ranked

4973
citing authors

#	ARTICLE	IF	CITATIONS
1	Raman scattering study of the a-GeTe structure and possible mechanism for the amorphous to crystal transition. <i>Journal of Physics Condensed Matter</i> , 2006, 18, 965-979.	1.8	186
2	Raman scattering study of GeTe and Ge ₂ Sb ₂ Te ₅ phase-change materials. <i>Journal of Physics and Chemistry of Solids</i> , 2007, 68, 1074-1078.	4.0	164
3	Raman scattering study on structural and dynamical features of noncrystalline selenium. <i>Journal of Chemical Physics</i> , 2004, 121, 4747-4758.	3.0	149
4	Photocatalytic degradation of Naproxen and methylene blue: Comparison between ZnO, TiO ₂ and their mixture. <i>Chemical Engineering Research and Design</i> , 2018, 113, 174-183.	5.6	100
5	Preparation of ZnO nanoparticles by thermal decomposition of zinc alginate. <i>Thin Solid Films</i> , 2007, 515, 8461-8464.	1.8	99
6	Synthesis and characterization of ZnO/NiO p-n heterojunctions: ZnO nanorods grown on NiO thin film by thermal evaporation. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2011, 9, 132-139.	2.0	98
7	Phase transition in crystalline GeTe: Pitfalls of averaging effects. <i>Physical Review B</i> , 2010, 82, .	3.2	95
8	Lipid-like Self-Assembling Peptide Nanovesicles for Drug Delivery. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 8184-8189.	8.0	95
9	Influence of the surface-to-bulk defects ratio of ZnO and TiO ₂ on their UV-mediated photocatalytic activity. <i>Applied Catalysis B: Environmental</i> , 2017, 205, 292-301.	20.2	91
10	Novel ZnO nanostructures grown on carbon nanotubes by thermal evaporation. <i>Thin Solid Films</i> , 2007, 515, 8524-8528.	1.8	86
11	Temperature-induced structural changes in glassy, supercooled, and molten silica from 77 to 2150 K. <i>Journal of Chemical Physics</i> , 2006, 124, 014504.	3.0	74
12	Photoplastic effects in chalcogenide glasses: A review. <i>Physica Status Solidi (B): Basic Research</i> , 2009, 246, 1773-1785.	1.5	72
13	Probing the sulfur polymerization transition in situ with Raman spectroscopy. <i>Journal of Chemical Physics</i> , 2003, 118, 8460-8467.	3.0	69
14	CO ₂ Laser-Induced Growth of Epitaxial Graphene on 6H-SiC(0001). <i>Advanced Functional Materials</i> , 2012, 22, 113-120.	14.9	65
15	High-quality laser-assisted biomass-based turbostratic graphene for high-performance supercapacitors. <i>Carbon</i> , 2021, 172, 750-761.	10.3	65
16	Temperature induced changes on the structure and the dynamics of the tetrahedral glasses and melts of ZnCl ₂ and ZnBr ₂ . <i>Journal of Chemical Physics</i> , 2003, 118, 3197-3214.	3.0	64
17	Is there a sex difference in IQ scores? (Reply). <i>Nature</i> , 2006, 442, E1-E2.	27.8	62
18	Crystallization-induced short-range order changes in amorphous GeTe. <i>Journal of Physics Condensed Matter</i> , 2004, 16, S5103-S5108.	1.8	58

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19	Critical experimental facts pertaining to models and associated universalities for low-frequency Raman scattering in inorganic glass formers. <i>Physical Review B</i> , 2000, 62, 3728-3734.	3.2	57
20	Enhanced Raman gain of Ge ⁴⁺ Ga ³⁺ Sb ³⁺ S chalcogenide glass for highly nonlinear microstructured optical fibers. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2011, 28, 2284.	2.1	56
21	Why Phase-Change Media Are Fast and Stable: A New Approach to an Old Problem. <i>Japanese Journal of Applied Physics</i> , 2005, 44, 3345-3349.	1.5	55
22	Effect of cluster size of chalcogenide glass nanocolloidal solutions on the surface morphology of spin-coated amorphous films. <i>Journal of Applied Physics</i> , 2008, 103, .	2.5	54
23	Biomass-derived graphene-like materials as active electrodes for supercapacitor applications: A critical review. <i>Chemical Engineering Journal</i> , 2022, 446, 137191.	12.7	53
24	Dielectric strength and stability of natural ester oil based TiO ₂ nanofluids. <i>Journal of Molecular Liquids</i> , 2020, 316, 113901.	4.9	52
25	Influence of the morphology of ZnO nanowires on the photoelectrochemical water splitting efficiency. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 4866-4879.	7.1	51
26	On the analysis of the vibrational Boson peak and low-energy excitations in glasses. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 4541-4551.	3.1	50
27	A temperature dependence Raman study of the 0.1Nb ₂ O ₅ â€“0.9TeO ₂ glass-forming system. <i>Journal of Physics and Chemistry of Solids</i> , 2006, 67, 725-731.	4.0	50
28	Vibrational spectroscopic and computational studies of solâ€“gel derived CaOâ€“MgOâ€“SiO ₂ binary and ternary bioactive glasses. <i>Vibrational Spectroscopy</i> , 2008, 48, 118-125.	2.2	48
29	Pressure dependence of the Boson peak in glassy As ₂ S ₃ studied by Raman scattering. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 4594-4600.	3.1	47
30	High Frequency Dynamics in a Monatomic Glass. <i>Physical Review Letters</i> , 2004, 92, 025503.	7.8	46
31	Chalcogenide glass layers in silica photonic crystal fibers. <i>Optics Express</i> , 2012, 20, 14814.	3.4	46
32	Acoustic Excitations in Suspensions of Soft Colloids. <i>Physical Review Letters</i> , 2000, 85, 4622-4625.	7.8	43
33	Effect of silver doping on the structure and phase separation of sulfur-rich Asâ€“S glasses: Raman and SEM studies. <i>Journal of Non-Crystalline Solids</i> , 2009, 355, 2010-2014.	3.1	43
34	Short-time dynamics of glass-forming liquids: Phenyl salicylate (salol) in bulk liquid, dilute solution, and confining geometries. <i>Journal of Chemical Physics</i> , 2003, 118, 8340-8349.	3.0	41
35	Structure, dynamics, and mechanical properties of glassy Ge ₁₁ Te ₁₁ and Ge ₁₁ Te ₁₁ S ₁₁ glasses. <i>Journal of Non-Crystalline Solids</i> , 2007, 353, 1005-1014.	3.2	41
36	Origin of the λ^{-4} Transition in Liquid Sulfur. <i>Physical Review Letters</i> , 2007, 99, 025701.	7.8	39

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37	Colossal photostructural changes in chalcogenide glasses: Athermal photoinduced polymerization in AsxS100x bulk glasses revealed by near-bandgap Raman scattering. Applied Physics Letters, 2009, 94, .	3.3	39
38	Photoinduced mass-transport based holographic recording of surface relief gratings in amorphous selenium films. Applied Physics Letters, 2011, 99, 051906.	3.3	39
39	A Novel Thermo-thickening Phenomenon Exhibited by a Triblock Polyampholyte in Aqueous Salt-Free Solutions. Macromolecules, 2005, 38, 2883-2888.	4.8	38
40	Facile, substrate-scale growth of mono- and few-layer homogeneous MoS ₂ films on Mo foils with enhanced catalytic activity as counter electrodes in DSSCs. Nanotechnology, 2016, 27, 045404.	2.6	38
41	Factors Affecting the Power Conversion Efficiency in ZnO DSSCs: Nanowire vs. Nanoparticles. Materials, 2018, 11, 411.	2.9	38
42	A low-frequency Raman study of glassy, supercooled and molten silica and the preservation of the Boson peak in the equilibrium liquid state. Journal of Non-Crystalline Solids, 2006, 352, 4619-4624.	3.1	36
43	High-Quality, Reproducible ZnO Nanowire Arrays Obtained by a Multiparameter Optimization of Chemical Bath Deposition Growth. Crystal Growth and Design, 2016, 16, 2140-2150.	3.0	35
44	Vibrational dynamics and surface structure of amorphous selenium. Nature Communications, 2011, 2, 195.	12.8	32
45	The influence of Au film thickness and annealing conditions on the VLS-assisted growth of ZnO nanostructures. Nanotechnology, 2014, 25, 215601.	2.6	32
46	The glassy and supercooled state of elemental sulfur: Vibrational modes, structure metastability, and polymer content. Journal of Chemical Physics, 2013, 139, 124501.	3.0	30
47	Low-energy excitations in noncrystalline arsenic trioxide. Journal of Chemical Physics, 1997, 107, 1341-1349.	3.0	29
48	A high-temperature Raman spectroscopic investigation of the potassium tetrasilicate in glassy, supercooled, and liquid states. Journal of Chemical Physics, 2006, 125, 164502.	3.0	29
49	Poisson's ratio and liquid's fragility. Nature, 2006, 442, E7-E8.	27.8	27
50	Photo-induced oxidation and amorphization of trigonal tellurium: A means to engineer hybrid nanostructures and explore glass structure under spatial confinement. Journal of Applied Physics, 2014, 116, .	2.5	27
51	The Essential Elements of a Risk Governance Framework for Current and Future Nanotechnologies. Risk Analysis, 2018, 38, 1321-1331.	2.7	27
52	Raman spectra and microscopic dynamics of bulk and confined salol. Journal of Molecular Structure, 2003, 651-653, 475-483.	3.6	26
53	Intramolecular structural model for photoinduced plasticity in chalcogenide glasses. Physical Review B, 2003, 68, .	3.2	26
54	Dynamics of Density and Orientation Fluctuations in Supercooled Zinc Halides. Journal of Physical Chemistry B, 1997, 101, 8748-8755.	2.6	25

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55	Light-scattering study of slow and fast dynamics in a strong inorganic glass former. <i>Physical Review B</i> , 1999, 60, 15131-15142.	3.2	25
56	Nonergodicity Factor, Fragility, and Elastic Properties of Polymeric Glassy Sulfur. <i>Journal of Physical Chemistry B</i> , 2011, 115, 14052-14063.	2.6	25
57	Laser-Assisted Growth of t-Te Nanotubes and their Controlled Photo-induced Unzipping to ultrathin core-Te/sheath-TeO ₂ Nanowires. <i>Scientific Reports</i> , 2013, 3, 1209.	3.3	25
58	Efficient defect healing and ultralow sheet resistance of laser-assisted reduced graphene oxide at ambient conditions. <i>Carbon</i> , 2018, 139, 492-499.	10.3	25
59	Vibrational modes in the athermally photoinduced fluidity regime of glassy As ₂ S ₃ . <i>Physical Review B</i> , 2001, 64, .	3.2	24
60	Structure and photo-induced effects in elemental chalcogens: a review on Raman scattering. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 7565-7595.	2.2	24
61	A temperature-dependent Raman study of the xLiClâ€“(1â€“x)TeO ₂ glasses and melts. <i>Journal of Physics and Chemistry of Solids</i> , 2007, 68, 1029-1034.	4.0	23
62	Vibrational dynamics as an indicator of short-time interactions in glass-forming liquids and their possible relation to cooperativity. <i>Journal of Chemical Physics</i> , 2002, 117, 1220-1230.	3.0	22
63	Structure of As _x Te _{100âˆ“x} (20âˆ“1/2xâˆ“1/260) glasses investigated with x-ray absorption fine structure, x-ray and neutron diffraction, and reverse Monte Carlo simulation. <i>Journal of Chemical Physics</i> , 2008, 129, 214502.	3.0	22
64	Raman spectroscopic study of Sb _x Se _{100âˆ“x} phase-separated bulk glasses. <i>Journal of Non-Crystalline Solids</i> , 2009, 355, 2040-2044.	3.1	22
65	Composition-dependent photosensitivity in Asâ€“S glasses induced by bandgap light: structural origin by Raman scattering. <i>Optics Letters</i> , 2011, 36, 534.	3.3	22
66	Origin of photoinduced defects in glassy As ₂ S ₃ under band gap illumination studied by Raman scattering: A revisory approach. <i>Physica Status Solidi (B): Basic Research</i> , 2012, 249, 2005-2012.	1.5	22
67	Fate assessment of commercial 2D MoS ₂ aqueous dispersions at physicochemical and toxicological level. <i>Nanotechnology</i> , 2020, 31, 445101.	2.6	22
68	Stability and physicochemical characterization of novel milk-based oral formulations. <i>International Journal of Pharmaceutics</i> , 2013, 444, 128-138.	5.2	21
69	In-situ high temperature study of the long-term stability and dielectric properties of nanofluids based on TiO ₂ and SiC dispersions in natural ester oil at various concentrations. <i>Journal of Molecular Liquids</i> , 2022, 359, 119284.	4.9	21
70	Structure and vibrational modes of sulfur around the Î»-transition and the glass-transition. <i>Journal of Non-Crystalline Solids</i> , 2003, 326-327, 115-119.	3.1	20
71	Reversible Amorphousâ€“Amorphous Transitions in Chalcogenide Films: Correlating Changes in Structure and Optical Properties. <i>Advanced Functional Materials</i> , 2013, 23, 2052-2059.	14.9	20
72	The frequency-dependent depolarization ratio of the low-frequency Raman scattering of two inorganic systems in their glassy, supercooled, and molten states. <i>Journal of Chemical Physics</i> , 2000, 113, 5868-5872.	3.0	19

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73	Charge-current contribution to low-frequency Raman scattering from glass-forming ionic liquids. <i>Physical Review B</i> , 2000, 61, 11391-11399.	3.2	19
74	Light Scattering from Molten Salts: Structure and Dynamics. , 2002, , 47-106.		19
75	Anomalous temperature dependence of photoinduced fluidity in chalcogenide glasses. <i>Physical Review B</i> , 2002, 65, .	3.2	19
76	“Rounding” of the sulfur living polymerization transition under spatial confinement. <i>Journal of Chemical Physics</i> , 2003, 119, 7543-7553.	3.0	19
77	Development of a ZnO Nanowire Continuous Flow Microreactor with β -Glucosidase Activity: Characterization and Application for the Glycosylation of Natural Products. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 7658-7667.	6.7	19
78	Spectral features of the quasielastic line in amorphous solids and supercooled liquids: A detailed low-frequency Raman scattering study. <i>Physical Review E</i> , 2002, 65, 021510.	2.1	18
79	High pressure transition in amorphous As ₂ S ₃ studied by EXAFS. <i>Journal of Chemical Physics</i> , 2009, 131, 224502.	3.0	18
80	Structure of AgI-doped Ge-In-S glasses: Experiment, reverse Monte Carlo modelling, and density functional calculations. <i>Journal of Solid State Chemistry</i> , 2012, 192, 7-15.	2.9	18
81	High-Voltage LiNi _{0.5} Mn _{1.5} O ₄ Spinel Material Synthesized by Microwave-Assisted Thermo-Polymerization: Some Insights into the Microwave-Enhancing Physico-Chemistry. <i>Journal of the Electrochemical Society</i> , 2017, 164, A3259-A3265.	2.9	18
82	Dynamics of proteins: Light scattering study of dilute and dense colloidal suspensions of eye lens homogenates. <i>Journal of Chemical Physics</i> , 2007, 127, 205101.	3.0	17
83	Novel photoelectrochromic devices incorporating carbon-based perovskite solar cells. <i>Nano Energy</i> , 2020, 77, 105243.	16.0	17
84	Rounding effects on doped sulfur’s living polymerization: The case of As and Se. <i>Physical Review B</i> , 2005, 72, .	3.2	16
85	Comment on “Glass-Specific Behavior in the Damping of Acousticlike Vibrations”, <i>Physical Review Letters</i> , 2007, 98, 079601; author reply 079602.	7.8	16
86	Laser-assisted transformation of a phenol-based resin to high quality graphene-like powder for supercapacitor applications. <i>Chemical Engineering Journal</i> , 2022, 430, 133179.	12.7	16
87	Computation of light scattering by axisymmetric nonspherical particles and comparison with experimental results. <i>Applied Optics</i> , 1998, 37, 7310.	2.1	15
88	Temperature dependence of the medium-range structural order in glassy and supercooled selenium: An experimental investigation. <i>Physical Review B</i> , 2004, 69, .	3.2	15
89	Dynamic light scattering study of an amelogenin gel-like matrix <i>in vitro</i> . <i>European Journal of Oral Sciences</i> , 2006, 114, 308-314.	1.5	15
90	Physisorbedo-carborane onto lyso-phosphatidylcholine-functionalized, single-walled carbon nanotubes: a potential carrier system for the therapeutic delivery of boron. <i>Nanotechnology</i> , 2010, 21, 085101.	2.6	15

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91	Confinement effects on liquid-liquid transitions: pore size dependence of sulfur's living polymerization. <i>Soft Matter</i> , 2011, 7, 3404.	2.7	15
92	Laser processing of SiC: From graphene-coated SiC particles to 3D graphene froths. <i>Carbon</i> , 2015, 85, 176-184.	10.3	15
93	Platinum decorated zinc oxide nanowires as an efficient counter electrode for dye sensitized solar cells. <i>Journal of Electroanalytical Chemistry</i> , 2019, 835, 86-95.	3.8	15
94	Evidence of two structural relaxation processes near the glass transition of a strong glass former. <i>Physical Review E</i> , 1996, 53, R1328-R1331.	2.1	14
95	Textural and structural studies of sol-gel derived CaO- and MgO silica glasses. <i>Journal of Non-Crystalline Solids</i> , 2008, 354, 749-754.	3.1	14
96	Novel composite materials from functionalized polymers and silver coated titanium oxide capable for calcium phosphate induction, control of orthopedic biofilm infections: an <i>in vitro</i> study. <i>Journal of Materials Science: Materials in Medicine</i> , 2010, 21, 2201-2211.	3.6	14
97	The Influence of Nanoparticles' Conductivity and Charging on Dielectric Properties of Ester Oil Based Nanofluid. <i>Energies</i> , 2020, 13, 6540.	3.1	14
98	Photoemission studies of As_xSe_{100-x} (x: 0, 50, 100) films prepared by pulsed-laser deposition—the effect of annealing. <i>Journal of Physics Condensed Matter</i> , 2006, 18, 5525-5534.	1.8	13
99	Nano-scale annealing-induced structural changes in As-rich pulsed laser deposited As_xSe_{100-x} films studied by XPS. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 1520-1524.	3.1	13
100	Inelastic light scattering from $xCaO-(1-x)SiO_2$ glasses. <i>Journal of Non-Crystalline Solids</i> , 2003, 322, 35-40.	3.1	12
101	Ag diffusion in amorphous $As_{50}Se_{50}$ films studied by XPS. <i>Journal of Non-Crystalline Solids</i> , 2009, 355, 1844-1848.	3.1	12
102	Vibrational modes and structure of $(AgI)(GeS_{1.5})_{100-x}$ chalcogenide glasses. <i>Journal of Non-Crystalline Solids</i> , 2009, 355, 2063-2067.	3.1	12
103	Stabilisation of SWNTs by alkyl-sulfate chitosan derivatives of different molecular weight: towards the preparation of hybrids with anticoagulant properties. <i>Nanoscale</i> , 2011, 3, 1218.	5.6	12
104	MoS ₂ /h-BN heterostructures: controlling MoS ₂ crystal morphology by chemical vapor deposition. <i>Journal of Materials Science</i> , 2017, 52, 7028-7038.	3.7	12
105	Lessons learned from 25 years of development of photoelectrochromic devices: A technical review. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 162, 112462.	16.4	12
106	Vibrational modes of sodium-tellurite glasses: Local structure and Boson peak changes. <i>Journal of Physics and Chemistry of Solids</i> , 2007, 68, 1035-1039.	4.0	11
107	Dynamic light scattering study on phase separation of a protein-water mixture: Application on cold cataract development in the ocular lens. <i>Physical Review E</i> , 2008, 77, 061904.	2.1	11
108	ZnO/zeolite hybrid nanostructures: synthesis, structure, optical properties, and simulation. <i>Thin Solid Films</i> , 2014, 555, 21-27.	1.8	11

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109	Structural Modification of Ni ₃ Al ₂ O ₃ with Boron for Enhanced Carbon Resistance during CO Methanation. <i>ChemCatChem</i> , 2015, 7, 3261-3265.	3.7	11
110	Thermal dewetting tunes surface enhanced resonance Raman scattering (SERRS) performance. <i>RSC Advances</i> , 2018, 8, 29062-29070.	3.6	11
111	Assessment of Physico-Chemical and Toxicological Properties of Commercial 2D Boron Nitride Nanopowder and Nanoplatelets. <i>International Journal of Molecular Sciences</i> , 2021, 22, 567.	4.1	11
112	Elemental sulfur under high hydrostatic pressure. An up-to-date Raman study. <i>High Pressure Research</i> , 2013, 33, 134-140.	1.2	10
113	Electrochemical properties and long-term stability of molybdenum disulfide and platinum counter electrodes for solar cells: A comparative study. <i>Electrochimica Acta</i> , 2018, 267, 110-121.	5.2	10
114	The photo-electrokinetics of the O ₂ evolution reaction on ZnO nanorods. <i>Electrochimica Acta</i> , 2019, 298, 587-598.	5.2	10
115	The temperature dependence of photoinduced fluidity in chalcogenide glasses: a Raman spectroscopic study. <i>Journal of Non-Crystalline Solids</i> , 2002, 299-302, 935-939.	3.1	9
116	Nanoindentation and Raman studies of phase-separated Ag-As-S glasses. <i>Applied Physics Letters</i> , 2011, 99, 171911.	3.3	9
117	Laser-induced transformation of graphitic materials to two-dimensional graphene-like structures at ambient conditions. <i>Nanotechnology</i> , 2018, 29, 384001.	2.6	9
118	Optimization of aluminum doped ZnO nanowires for photoelectrochemical water splitting. <i>Electrochimica Acta</i> , 2021, 392, 138995.	5.2	9
119	A Raman spectroscopic study on the microscopic origin of the photoinduced fluidity effect. <i>Physica B: Condensed Matter</i> , 2001, 296, 216-221.	2.7	8
120	Low-frequency Raman scattering from the 0.8ZnCl ₂ -0.2AlCl ₃ glass-forming system. <i>Journal of Non-Crystalline Solids</i> , 2002, 307-310, 142-147.	3.1	8
121	High frequency acoustic modes in vitreous beryllium fluoride probed by inelastic x-ray scattering. <i>Journal of Chemical Physics</i> , 2003, 118, 311-316.	3.0	8
122	Electronic and structural changes induced by irradiation or annealing in pulsed laser deposited As ₅₀ Se ₅₀ films. An XPS and UPS study. <i>Journal of Physics and Chemistry of Solids</i> , 2007, 68, 906-910.	4.0	8
123	Study of crystallization kinetics and structural relaxation behavior in phase separated Ag ₃₃ Ge ₁₇ Se ₅₀ glassy alloys. <i>Materials Chemistry and Physics</i> , 2012, 135, 68-72.	4.0	8
124	Double-Layered Zirconia Films for Carbon-Based Mesoscopic Perovskite Solar Cells and Photodetectors. <i>Journal of Nanomaterials</i> , 2019, 2019, 1-11.	2.7	8
125	Toxicological assessment of commercial monolayer tungsten disulfide nanomaterials aqueous suspensions using human A549 cells and the model fungus <i>Saccharomyces cerevisiae</i> . <i>Chemosphere</i> , 2021, 272, 129603.	8.2	8
126	Soft x-ray induced Ag diffusion in amorphous pulse laser deposited As ₅₀ Se ₅₀ thin films: An x-ray photoelectron and secondary ion mass spectroscopy study. <i>Journal of Applied Physics</i> , 2008, 104, 043704.	2.5	7

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127	Probing the Perturbation of Lecithin Bilayers by Unmodified C60Fullerenes Using Experimental Methods and Computational Simulations. <i>Journal of Physical Chemistry C</i> , 2012, 116, 3867-3874.	3.1	7
128	Photo-Plastic Effects in Chalcogenide Glasses: Raman Scattering Studies. , 0, , 119-137.		6
129	Structure and vibrational modes of AgI-doped AsSe glasses: Raman scattering and ab initio calculations. <i>Journal of Solid State Chemistry</i> , 2011, 184, 447-454.	2.9	6
130	In-situ study of athermal reversible photocrystallization in a chalcogenide glass. <i>Journal of Applied Physics</i> , 2017, 122, .	2.5	6
131	Band Alignment and Optical Properties of 1D/2D Sb ₂ Se ₃ /PtSe ₂ Heterojunctions. <i>ACS Applied Electronic Materials</i> , 2022, 4, 4814-4822.	4.3	6
132	On the extent of polymerization of liquid sulfur at very high temperatures. <i>Journal of Chemical Physics</i> , 2006, 124, 146101.	3.0	5
133	Octahedral fluoride glasses: Raman spectra and structure of niobium pentafluoride. <i>Journal of Non-Crystalline Solids</i> , 2008, 354, 5521-5528.	3.1	5
134	Reversible migration of silver on memorized pathways in Ag-Ge ₄₀ S ₆₀ films. <i>AIP Advances</i> , 2015, 5, .	1.3	5
135	Synthesis of t-Te and a-Se nanospheres using continuous wave visible light. <i>Journal of Nanoparticle Research</i> , 2019, 21, 1.	1.9	5
136	Hybrid ZnO/MoS ₂ Core/Sheath Heterostructures for Photoelectrochemical Water Splitting. <i>Applied Nano</i> , 2021, 2, 148-161.	2.0	5
137	Structural investigations of the x ZnCl ₂ -(1-x)AlCl ₃ glass-forming system: a Raman spectroscopic study. <i>Journal of Non-Crystalline Solids</i> , 2003, 326-327, 109-114.	3.1	4
138	Response to "Comment on "Probing in situ the sulfur polymerization transition with Raman spectroscopy" [J. Chem. Phys. 121, 6573 (2004)]. <i>Journal of Chemical Physics</i> , 2004, 121, 6575-6577.	3.0	4
139	Some remarks on the low-energy excitations in glasses: interpretation of Boson peak data. <i>Philosophical Magazine</i> , 2007, 87, 593-602.	1.6	4
140	Comment on "Dynamic aspects of the liquid-liquid phase transformation in silicon" [J. Chem. Phys. 129, 104503 (2008)]. <i>Journal of Chemical Physics</i> , 2009, 130, 247102.	3.0	4
141	Vibrational Properties of Silver-doped Arsenic Chalcogenide Bulk Glasses. <i>AIP Conference Proceedings</i> , 2010, , .	0.4	4
142	Influence of thermal history on the photostructural changes in glassy As ₁₅ S ₈₅ studied by Raman scattering and ab initio calculations. <i>Journal of Applied Physics</i> , 2013, 114, .	2.5	4
143	X-Ray Crystallographic Analysis, EPR Studies, and Computational Calculations of a Cu(II) Tetramic Acid Complex. <i>Bioinorganic Chemistry and Applications</i> , 2017, 2017, 1-10.	4.1	4
144	1.5 μm photoluminescence and upconversion photoluminescence in GeGaAsS:Er chalcogenide glass. <i>Pure and Applied Chemistry</i> , 2019, 91, 1757-1767.	1.9	4

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145	Carbon Membranes Prepared from Poly (Furfuryl Alcohol) Precursors: Effect of FeCl ₃ Additive. <i>Journal of Carbon Research</i> , 2020, 6, 53.	2.7	4
146	Light Scattering from Glass-forming Molten Salts. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2002, 57, 65-70.	1.5	3
147	Experimental study of the boson peak in glasses with broken isotropic orientational symmetry. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2002, 296, 295-300.	2.1	3
148	Pressure Raman study of vibrational modes of glassy As ₂ X ₃ (X: O, S). <i>High Pressure Research</i> , 2006, 26, 401-406.	1.2	3
149	Slow dynamics of liquid Se studied by Infrared Photon Correlation Spectroscopy. <i>Journal of Non-Crystalline Solids</i> , 2009, 355, 1797-1800.	3.1	3
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