

Konstantinos S Andrikopoulos

List of Publications by Year in descending order

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61
papers

1,923
citations

257450

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265206

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62
all docs

62
docs citations

62
times ranked

2720
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	Crystallinity and Chain Conformation in PEO/Layered Silicate Nanocomposites. <i>Macromolecules</i> , 2011, 44, 9710-9722.	4.8	113
5	Probing the sulfur polymerization transition in situ with Raman spectroscopy. <i>Journal of Chemical Physics</i> , 2003, 118, 8460-8467.	3.0	69
6	Effect of in vitro aging on the flexural strength and probability to fracture of Y-TZP zirconia ceramics for all-ceramic restorations. <i>Dental Materials</i> , 2014, 30, e306-e316.	3.5	64
7	Crystallization-induced short-range order changes in amorphous GeTe. <i>Journal of Physics Condensed Matter</i> , 2004, 16, S5103-S5108.	1.8	58
8	Subphthalocyanine as hole transporting material for perovskite solar cells. <i>RSC Advances</i> , 2015, 5, 69813-69818.	3.6	56
9	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
10	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
11	Polarized Resonance Raman and FTIR Reflectance Spectroscopic Investigation of the Molecular Orientation in Industrial Poly(vinyl chloride) Specimens. <i>Macromolecules</i> , 2000, 33, 5613-5623.	4.8	49
12	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
13	The Effect of Thermal Reduction on the Water Vapor Permeation in Graphene Oxide Membranes. <i>Advanced Materials Interfaces</i> , 2014, 1, 1400250.	3.7	47
14	Micro-Raman and X-ray fluorescence spectroscopy data fusion for the classification of ochre pigments. <i>Talanta</i> , 2008, 75, 926-936.	5.5	45
15	From Byzantine to post-Byzantine art: the painting technique of St Stephen's wall paintings at Meteora, Greece. <i>Journal of Archaeological Science</i> , 2008, 35, 2474-2485.	2.4	44
16	Patterned, organoid-based cartilaginous implants exhibit zone specific functionality forming osteochondral-like tissues in vivo. <i>Biomaterials</i> , 2021, 273, 120820.	11.4	42
17	The effect of the degree of oxidation on broadband nonlinear absorption and ferromagnetic ordering in graphene oxide. <i>Nanoscale</i> , 2016, 8, 2908-2917.	5.6	40
18	Enhancing water vapor permeability in mixed matrix polypropylene membranes through carbon nanotubes dispersion. <i>Journal of Membrane Science</i> , 2017, 524, 576-584.	8.2	36

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19	Evaluation of multi-walled carbon nanotube concentrations in polymer nanocomposites by Raman spectroscopy. <i>Carbon</i> , 2014, 76, 301-309.	10.3	35
20	Structural and Conformational Properties of Poly(ethylene oxide)/Silica Nanocomposites: Effect of Confinement. <i>Macromolecules</i> , 2017, 50, 6273-6284.	4.8	32
21	The glassy and supercooled state of elemental sulfur: Vibrational modes, structure metastability, and polymer content. <i>Journal of Chemical Physics</i> , 2013, 139, 124501.	3.0	30
22	Nonergodicity Factor, Fragility, and Elastic Properties of Polymeric Glassy Sulfur. <i>Journal of Physical Chemistry B</i> , 2011, 115, 14052-14063.	2.6	25
23	Composite ZnSe-CdSe Quantum Dot Sensitizers of Solid-State Solar Cells and the Beneficial Effect of Added Na ₂ S. <i>Journal of Physical Chemistry C</i> , 2014, 118, 16547-16551.	3.1	24
24	Raman study of the high-pressure hydrogenated single-wall carbon nanotubes: In search of chemically bonded and adsorbed molecular hydrogen. <i>Chemical Physics Letters</i> , 2007, 433, 335-339.	2.6	23
25	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
26	Rapid Microwave-Assisted Synthesis of CdS/Graphene/MoS ₂ Tunable Heterojunctions and Their Application in Photocatalysis. <i>Chemistry - A European Journal</i> , 2020, 26, 6643-6651.	3.3	22
27	Analytical study into El Greco's baptism of Christ: clues to the genius of his palette. <i>Applied Physics A: Materials Science and Processing</i> , 2008, 90, 565-575.	2.3	21
28	Round-off of the sulfur living polymerization transition under spatial confinement. <i>Journal of Chemical Physics</i> , 2003, 119, 7543-7553.	3.0	19
29	Fast Monitoring of the Molecular Orientation in Drawn Polymers Using Micro-Raman Spectroscopy. <i>Applied Spectroscopy</i> , 2002, 56, 528-535.	2.2	18
30	High pressure transition in amorphous As ₂ S ₃ studied by EXAFS. <i>Journal of Chemical Physics</i> , 2009, 131, 224502.	3.0	18
31	Poly(ethylene Terephthalate) Carbon-Based Nanocomposites: A Crystallization and Molecular Orientation Study. <i>Polymers</i> , 2020, 12, 2626.	4.5	17
32	Molecular Orientation of Hairy-Rod Polyesters: Effects of Side Chain Length. <i>Macromolecules</i> , 1998, 31, 5465-5473.	4.8	16
33	Confinement effects on liquid-liquid transitions: pore size dependence of sulfur's living polymerization. <i>Soft Matter</i> , 2011, 7, 3404.	2.7	15
34	One-step electrodeposition of CdSe on nanoparticulate titania films and their use as sensitized photoanodes for photoelectrochemical hydrogen production. <i>Catalysis Today</i> , 2015, 252, 157-161.	4.4	15
35	Molecular Orientation of Blue Luminescent Rigid-Flexible Polymers. <i>Macromolecules</i> , 1999, 32, 8848-8856.	4.8	14
36	On the Ferroelectric to Paraelectric Structural Transition of BaTiO ₃ Micro-/Nanoparticles and Their Epoxy Nanocomposites. <i>Molecules</i> , 2020, 25, 2686.	3.8	14

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37	Polymer Conformation under Confinement. <i>Polymers</i> , 2017, 9, 73.	4.5	13
38	Monitoring the spin crossover phenomenon of $[\text{Fe}(\text{2-mpz})_2\text{Ni}(\text{CN})_4]$ 2D Hofmann-type polymer nanoparticles via temperature-dependent Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2020, 51, 2171-2181.	2.5	13
39	Issues relating to the common origin of two Byzantine miniatures: in situ examination with Raman spectroscopy and optical microscopy. <i>Journal of Raman Spectroscopy</i> , 2007, 38, 332-343.	2.5	12
40	Fuzzy Logic for Identifying Pigments Studied by Raman Spectroscopy. <i>Applied Spectroscopy</i> , 2004, 58, 848-854.	2.2	11
41	Evaluating a Cumaean Sibyl: Domenichino or later? A multi analytical approach. <i>Analytica Chimica Acta</i> , 2008, 611, 239-249.	5.4	11
42	Thermal dewetting tunes surface enhanced resonance Raman scattering (SERRS) performance. <i>RSC Advances</i> , 2018, 8, 29062-29070.	3.6	11
43	Elemental sulfur under high hydrostatic pressure. An up-to-date Raman study. <i>High Pressure Research</i> , 2013, 33, 134-140.	1.2	10
44	Comparative high pressure Raman study of individual and bundled single-wall carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2007, 244, 100-104.	1.5	9
45	Nanoindentation and Raman studies of phase-separated Ag-As-S glasses. <i>Applied Physics Letters</i> , 2011, 99, 171911.	3.3	9
46	Study of upscaling possibilities for antimony sulfide solid state sensitized solar cells. <i>Journal of Power Sources</i> , 2015, 278, 404-410.	7.8	9
47	A Known Iron(II) Complex in Different Nanosized Particles: Variable-Temperature Raman Study of Its Spin-Crossover Behavior. <i>Inorganic Chemistry</i> , 2019, 58, 5183-5195.	4.0	9
48	Review and New Evidence on the Molluscan Purple Pigment Used in the Early Late Bronze Age Aegean Wall Paintings. <i>Heritage</i> , 2021, 4, 171-187.	1.9	9
49	Influence of pressure on the photopolymerization rate of the linear orthorhombic polymer of C60. <i>Chemical Physics Letters</i> , 2006, 428, 298-302.	2.6	8
50	High pressure Raman study of the second-order vibrational modes of single- and double-walled carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2007, 244, 4069-4073.	1.5	8
51	Highly Efficient Simulated Solar Light-Driven Photocatalytic Degradation of 4-Nitrophenol over CdS/Carbon/MoS _x Hybrids. <i>Chemistry - A European Journal</i> , 2021, 27, 15806-15814.	3.3	8
52	Second-order Raman study of double-wall carbon nanotubes under high pressure. <i>Physica Status Solidi (B): Basic Research</i> , 2007, 244, 116-120.	1.5	7
53	Brillouin light scattering study of polymeric glassy sulfur. <i>Journal of Non-Crystalline Solids</i> , 2011, 357, 563-566.	3.1	7
54	Metal-doped CdS/MoS ₂ heterojunctions for photocatalytic degradation of organic pollutant. <i>Materials Science in Semiconductor Processing</i> , 2022, 144, 106600.	4.0	6

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55	On the extent of polymerization of liquid sulfur at very high temperatures. Journal of Chemical Physics, 2006, 124, 146101.	3.0	5
56	Collagen orientation probed by polarized Raman spectra can serve as differential diagnosis indicator between different grades of meniscus degeneration. Scientific Reports, 2021, 11, 20299.	3.3	5
57	Tuning the Spin-Crossover Behaviour in Fe(II) Polymeric Composites for Food Packaging Applications. Magnetochemistry, 2022, 8, 16.	2.4	5
58	Wet-Chemistry Assembly of One-Dimensional Nanowires: Switching Characteristics of a Known Spin-Crossover Iron(II) Complex Through Raman Spectroscopy. Chemical Communications, 2021, , .	4.1	4
59	Pressure Raman study of vibrational modes of glassy As ₂ X ₃ (X: O, S). High Pressure Research, 2006, 26, 401-406.	1.2	3
60	Manipulation of the drug release behavior of poly(glycolide- <i>co</i> -trimethylene carbonate). Journal of Applied Polymer Science, 2016, 133, .	2.6	1
61	Water Vapor Transport Enhancement Through Isotactic Polypropylene by Incorporating Multiwalled Carbon Nanotubes. Powder Metallurgy and Metal Ceramics, 2015, 53, 634-642.	0.8	0