

# Elias Saion

## List of Publications by Year in descending order

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66  
papers

2,983  
citations

172207  
29  
h-index

168136  
53  
g-index

67  
all docs

67  
docs citations

67  
times ranked

3894  
citing authors

#	ARTICLE	IF	CITATIONS
1	Visible Light-Induced Degradation of Methylene Blue in the Presence of Photocatalytic ZnS and CdS Nanoparticles. <i>International Journal of Molecular Sciences</i> , 2012, 13, 12242-12258.	1.8	349
2	A review on radiation-induced nucleation and growth of colloidal metallic nanoparticles. <i>Nanoscale Research Letters</i> , 2013, 8, 474.	3.1	191
3	Structural, optical, opto-thermal and thermal properties of ZnS/PVA nanofluids synthesized through a radiolytic approach. <i>Beilstein Journal of Nanotechnology</i> , 2015, 6, 529-536.	1.5	187
4	Structural and Optical Properties of Ag Nanoparticles Synthesized by Thermal Treatment Method. <i>Materials</i> , 2017, 10, 402.	1.3	121
5	Influence of Dose on Particle Size and Optical Properties of Colloidal Platinum Nanoparticles. <i>International Journal of Molecular Sciences</i> , 2012, 13, 14723-14741.	1.8	120
6	Size-Controlled and Optical Properties of Monodispersed Silver Nanoparticles Synthesized by the Radiolytic Reduction Method. <i>International Journal of Molecular Sciences</i> , 2013, 14, 7880-7896.	1.8	120
7	Photocatalytic degradation of methylene blue under visible light using PVP-capped ZnS and CdS nanoparticles. <i>Solar Energy</i> , 2013, 97, 147-154.	2.9	108
8	Influence of the Polyvinyl Pyrrolidone Concentration on Particle Size and Dispersion of ZnS Nanoparticles Synthesized by Microwave Irradiation. <i>International Journal of Molecular Sciences</i> , 2012, 13, 12412-12427.	1.8	103
9	Enhancement of visible light photocatalytic activity of ZnS and CdS nanoparticles based on organic and inorganic coating. <i>Applied Surface Science</i> , 2014, 290, 440-447.	3.1	101
10	Structural, Optical and Electrical Properties of PVA/PANI/Nickel Nanocomposites Synthesized by Gamma Radiolytic Method. <i>Polymers</i> , 2014, 6, 2435-2450.	2.0	99
11	Structural, Thermal, and Electrical Properties of PVA-Sodium Salicylate Solid Composite Polymer Electrolyte. <i>Journal of Nanomaterials</i> , 2012, 2012, 1-8.	1.5	96
12	Up-scalable synthesis of size-controlled copper ferrite nanocrystals by thermal treatment method. <i>Materials Science in Semiconductor Processing</i> , 2015, 40, 564-569.	1.9	94
13	Influence of dose on particle size of colloidal silver nanoparticles synthesized by gamma radiation. <i>Radiation Physics and Chemistry</i> , 2010, 79, 1203-1208.	1.4	88
14	Fabrication and characterization of semiconductor nickel oxide (NiO) nanoparticles manufactured using a facile thermal treatment. <i>Results in Physics</i> , 2016, 6, 1024-1030.	2.0	77
15	Structural and Optical Properties of Zirconia Nanoparticles by Thermal Treatment Synthesis. <i>Journal of Nanomaterials</i> , 2016, 2016, 1-6.	1.5	67
16	Thermal Calcination-Based Production of SnO <sub>2</sub> Nanopowder: An Analysis of SnO <sub>2</sub> Nanoparticle Characteristics and Antibacterial Activities. <i>Nanomaterials</i> , 2018, 8, 250.	1.9	48
17	Simple synthesis of ZnSe nanoparticles by thermal treatment and their characterization. <i>Results in Physics</i> , 2017, 7, 1175-1180.	2.0	47
18	Synthesis and characterization of CdSe nanoparticles via thermal treatment technique. <i>Results in Physics</i> , 2017, 7, 1556-1562.	2.0	46



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37	A Novel Research on Behavior of Zinc Ferrite Nanoparticles in Different Concentration of Poly(vinyl Tj ETQq1 1 0.784314 rgBJ /Overlo	1.0	24
38	Phase Controlled Monodispersed CdS Nanocrystals Synthesized in Polymer Solution Using Microwave Irradiation. Journal of Inorganic and Organometallic Polymers and Materials, 2012, 22, 830-836.	1.9	23
39	Rare earth element (REE) in surface mangrove sediment by instrumental neutron activation analysis. Journal of Radioanalytical and Nuclear Chemistry, 2014, 301, 667-676.	0.7	22
40	Copper oxide nanoparticles synthesized by a heat treatment approach with structural, morphological and optical characteristics. Journal of Materials Science: Materials in Electronics, 2018, 29, 1025-1033.	1.1	22
41	Structural, optical and thermal properties of PVA/CdS nanocomposites synthesized by radiolytic method. Radiation Physics and Chemistry, 2014, 97, 212-216.	1.4	18
42	Comprehensive study on morphological, structural and optical properties of Cr2O3 nanoparticle and its antibacterial activities. Journal of Materials Science: Materials in Electronics, 2019, 30, 8035-8046.	1.1	18
43	Distribution of Heavy Metals in Core Marine Sediments of Coastal East Malaysia by Instrumental Neutron Activation Analysis and Inductively Coupled Plasma Spectroscopy. Applied Radiation and Isotopes, 2018, 132, 222-231.	0.7	17
44	Effect of sintering temperatures on structural and optical properties of ZnO-Zn2SiO4 composite prepared by using amorphous SiO2 nanoparticles. Journal of the Australian Ceramic Society, 2019, 55, 115-122.	1.1	15
45	Morphological, structural and optical behaviour of PVA capped binary (NiO)0.5 (Cr2O3)0.5 nanoparticles produced via single step based thermal technique. Results in Physics, 2020, 17, 103059.	2.0	15
46	Effect of radiation on conductivity of solid PVAâ€“KOHâ€“PC composite polymer electrolytes. Ionics, 2006, 12, 53-56.	1.2	13
47	Thermoluminescent dosimetry properties of double doped calcium tetraborate (CaB4O7:Cuâ€“Mn) nanophosphor exposed to gamma radiation. Journal of Alloys and Compounds, 2014, 582, 392-397.	2.8	13
48	Formation of a Colloidal CdSe and ZnSe Quantum Dots via a Gamma Radiolytic Technique. Applied Sciences (Switzerland), 2016, 6, 278.	1.3	12
49	The Influence of Calcination Temperature on the Formation of Zinc Oxide Nanoparticles by Thermal-Treatment. Applied Mechanics and Materials, 0, 446-447, 181-184.	0.2	11
50	A Modified Thermal Treatment Method for the Up-Scalable Synthesis of Size-Controlled Nanocrystalline Titania. Applied Sciences (Switzerland), 2016, 6, 295.	1.3	11
51	Optimisation of the Photonic Efficiency of TiO2 Decorated on MWCNTs for Methylene Blue Photodegradation. PLoS ONE, 2015, 10, e0125511.	1.1	9
52	Distribution of Trace Elements in Core Marine Sediments of Coastal East Malaysia by Instrumental Neutron Activation Analysis. Applied Radiation and Isotopes, 2017, 122, 96-105.	0.7	9
53	Open Photoacoustic Cell Configuration Applied to the Thermal Characterization of Liquid CdS Nanocomposites. International Journal of Thermophysics, 2014, 35, 53-61.	1.0	7
54	Synthesis and Characterization of Conducting Polyaniline Based on ANI-PVA-MgCl<sub>2</sub> Composites Using Gamma Radiation Technique. IEEE Access, 2020, 8, 139479-139488.	2.6	7

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55	Radiation-induced synthesis, electrical and optical characterization of conducting polyaniline of PANI/ PVA composites. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2020, 261, 114758.	1.7	6
56	Effects of gamma radiation treatment and plasticizer on alkaline solid polymer electrolytes. <i>Ionics</i> , 2005, 11, 468-471.	1.2	5
57	Theory and experiment of optical absorption of platinum nanoparticles synthesized by gamma radiation. <i>Applied Radiation and Isotopes</i> , 2019, 147, 204-210.	0.7	5
58	Up-scalable fabrication of nanosized nickel cobalt chromite spinel by a simple thermal treatment method: Structural and paramagnetic behavior. <i>Journal of Physics and Chemistry of Solids</i> , 2019, 128, 378-383.	1.9	5
59	Radiation-induced reduction of mixed copper and aluminum ionic aqueous solution. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2012, 292, 983-987.	0.7	4
60	Synthesis, Structural and Optical Properties of Cerium Oxide Nanoparticles Prepared by Thermal Treatment Method. <i>Solid State Phenomena</i> , 0, 268, 132-137.	0.3	4
61	Thermoluminescence Properties of Nanostructured Calcium Borate as a Sensitive Radiation Dosimeter for High Radiation Doses. <i>Advanced Materials Research</i> , 0, 832, 189-194.	0.3	3
62	Structural phase transformations in radiolytically synthesized Al-Cu bimetallic nanoparticles. <i>Journal of Materials Science</i> , 2015, 50, 4348-4356.	1.7	3
63	Structural and Morphological Properties of Manganese-Zinc Ferrite Nanoparticles Prepared by Thermal Treatment Route. <i>Solid State Phenomena</i> , 0, 290, 307-313.	0.3	3
64	On the theory of metal nanoparticles based on quantum mechanical calculation. <i>Malaysian Journal of Fundamental and Applied Sciences</i> , 2014, 7, .	0.4	1
65	Large-Scale Fabrication of Nanosized Cobalt Chromite Spinel by a Simple Thermal Treatment Method. <i>Nanoscience and Nanotechnology Letters</i> , 2014, 6, 697-700.	0.4	1
66	Fabrication and Radiation Dose Properties of Well-dispersed Calcium Borate Nanoparticles. <i>Nanoscience and Nanotechnology - Asia</i> , 2019, 9, 198-209.	0.3	1