

Enrique Alvarez

List of Publications by Year in descending order

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45
papers

564
citations

623734

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642732

23
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45
docs citations

45
times ranked

626
citing authors

#	ARTICLE	IF	CITATIONS
1	Band structure, optical properties and infrared spectrum of glycine–sodium nitrate crystal. <i>Journal of Molecular Structure</i> , 2008, 875, 295-301.	3.6	53
2	Enhanced conversion efficiency in Si solar cells employing photoluminescent down-shifting CdSe/CdS core/shell quantum dots. <i>Scientific Reports</i> , 2017, 7, 14104.	3.3	44
3	Effect of degradation on tribological performance of engine lubricants at elevated temperatures. <i>Tribology International</i> , 2018, 124, 230-237.	5.9	44
4	Yellow to orange-reddish glass phosphors: Sm ³⁺ , Tb ³⁺ and Sm ³⁺ /Tb ³⁺ in zinc tellurite-germanate glasses. <i>Optical Materials</i> , 2018, 75, 88-93.	3.6	40
5	Effect of CeO ₂ on the Glass Structure of Sodium Germanate Glasses. <i>Journal of the American Ceramic Society</i> , 2014, 97, 3494-3500.	3.8	35
6	Hollow Au–Ag bimetallic nanoparticles with high photothermal stability. <i>RSC Advances</i> , 2016, 6, 41304-41312.	3.6	29
7	Tunable emission and energy transfer in TeO ₂ -GeO ₂ -ZnO and TeO ₂ -GeO ₂ -MgCl ₂ glasses activated with Eu ³⁺ /Dy ³⁺ for solid state lighting applications. <i>Journal of Luminescence</i> , 2019, 212, 116-125.	3.1	29
8	Co-emission and energy transfer of Sm ³⁺ and/or Eu ³⁺ activated zinc-germanate-tellurite glass as a potential tunable orange to reddish-orange phosphor. <i>Journal of Non-Crystalline Solids</i> , 2019, 521, 119462.	3.1	28
9	Solar cell efficiency improvement employing down-shifting silicon quantum dots. <i>Microsystem Technologies</i> , 2018, 24, 495-502.	2.0	25
10	Cold white light generation from hafnium oxide films activated with Ce ³⁺ , Tb ³⁺ , and Mn ²⁺ ions. <i>Journal of Materials Research</i> , 2010, 25, 484-490.	2.6	24
11	Tunable White-Light Emission of Co ²⁺ and Mn ²⁺ Co-Doped ZnS Nanoparticles by Energy Transfer between Dopant Ions. <i>Journal of Physical Chemistry C</i> , 2020, 124, 3857-3866.	3.1	20
12	Cu-doped CdS thin films by chemical bath deposition and ion exchange. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 1722-1730.	2.2	19
13	Study of the optical properties and cross relaxation process of Dy ³⁺ under simultaneous UV-IR excitation in tellurite glasses. <i>Journal of Luminescence</i> , 2021, 233, 117874.	3.1	19
14	Utilization of down-shifting photoluminescent ZnO quantum dots on solar cells. <i>Materials Research Express</i> , 2017, 4, 076203.	1.6	14
15	Stabilized blue emitting ZnS@SiO ₂ quantum dots. <i>Optical Materials</i> , 2019, 89, 396-401.	3.6	14
16	Luminescence and study of channels for cross-relaxation dependent on the concentration of Sm ³⁺ under simultaneous UV-IR excitation in tellurite-germanate glasses. <i>Journal of Alloys and Compounds</i> , 2021, 854, 157076.	5.5	13
17	Low intensity sonosynthesis of iron carbide@iron oxide core-shell nanoparticles. <i>Ultrasonics Sonochemistry</i> , 2018, 49, 303-309.	8.2	12
18	Photoluminescent properties of ZnO nanorods films used to detect methanol contamination in tequila. <i>Sensors and Actuators A: Physical</i> , 2020, 312, 112142.	4.1	11

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19	Structural, luminescent and upconversion characteristics of Er ³⁺ doped titanium zinc tellurite glass. <i>Optical Materials</i> , 2021, 120, 111413.	3.6	11
20	Down-shifting and down-conversion emission properties of novel CdO/P ₂ O ₅ invert glasses activated with Pr ³⁺ and Pr ³⁺ /Yb ³⁺ for photonic applications. <i>Optical Materials</i> , 2021, 116, 111009.	3.6	9
21	Structural and optical modifications of CdS properties in CdS-Au thin films prepared by CBD. <i>Results in Physics</i> , 2021, 22, 103914.	4.1	8
22	Zinc sulfide quantum dots coated with PVP: applications on commercial solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 1457-1465.	2.2	6
23	Enhancing the power conversion efficiency of solar cells employing down-shifting silicon quantum dots. <i>Journal of Physics: Conference Series</i> , 2016, 773, 012087.	0.4	5
24	Stimulation of the photoluminescent properties of CBD/CdS thin films achieved by structural modifications resulting from Ag ⁺ doping. <i>Physica Status Solidi - Rapid Research Letters</i> , 2017, 11, 1700134.	2.4	5
25	Fiber optic sensor using ZnO for detection of adulterated tequila with methanol. <i>Optical Fiber Technology</i> , 2019, 52, 101982.	2.7	5
26	Silica-Coated ZnS Quantum Dots for Multicolor Emission Tuning from Blue to White Light. <i>ACS Applied Nano Materials</i> , 2021, 4, 12180-12187.	5.0	5
27	Achromatic reconstruction of femtosecond holograms in the planar optical waveguide. <i>Optics Letters</i> , 2008, 33, 2401.	3.3	4
28	Glycine lithium nitrate crystals: growth and optical properties. <i>Radiation Effects and Defects in Solids</i> , 2009, 164, 523-532.	1.2	4
29	Seedless synthesis of silver nanoparticles using sunlight and study of the effect of different ratios of precursors. <i>Materials Research Express</i> , 2019, 6, 045067.	1.6	4
30	Soda-zinc-aluminosilicate glasses doped with Tb ³⁺ , Ce ³⁺ , and Sm ³⁺ for frequency conversion and white light generation. , 2011, , .		3
31	Photo-mediated Seedless Synthesis of Silver Nanoparticles Using CW-Laser and Sunlight Irradiation. <i>Microscopy and Microanalysis</i> , 2017, 23, 1902-1903.	0.4	3
32	Comparison of spatially and temporally resolved diffuse transillumination measurement systems for extraction of optical properties of scattering media. <i>Applied Optics</i> , 2017, 56, 9199.	1.8	3
33	Sunlight-driven phytochemical synthesis of silver nanoparticles using aqueous extract of <i>Albizia lebbek</i> (L) Benth. <i>Materials Research Express</i> , 2019, 6, 125060.	1.6	3
34	Influence of photo-luminescent CdSe/CdS core shell quantum dots in solar cell efficiency. <i>Journal of Physics: Conference Series</i> , 2016, 773, 012088.	0.4	2
35	Solar cell efficiency improvement by photon absorption enhancement employing rare earth doped films. <i>Journal of Physics: Conference Series</i> , 2018, 1052, 012068.	0.4	2
36	Synthesis of Si and CdTe quantum dots and their combined use as down-shifting photoluminescent centers in Si solar cells. <i>Materials for Renewable and Sustainable Energy</i> , 2019, 8, 1.	3.6	2

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37	ZnS and ZnO nanocomposite for near white light tuning applications. , 2019, , .		2
38	ZnS quantum dots coated with PVP to enhance solar cell performance. , 2018, , .		1
39	Anomalous Stokes shift of colloidal quantum dots and their influence on solar cell performance. Microsystem Technologies, 2022, 28, 1505-1513.	2.0	1
40	Synthesis of silicon quantum dots using chitosan as a novel reductor agent. Revista Mexicana De Física, 2021, 67, 249-254.	0.4	1
41	Deep photothermal effect induced by stereotactic laser beams in highly scattering media. Optics Letters, 2021, 46, 4248.	3.3	1
42	Merging Mie solutions and the radiative transport equation to measure optical properties of scattering particles in optical phantoms. Applied Optics, 2020, 59, 10591.	1.8	1
43	Judd-Ofelt analysis and energy transfer mechanism in LiNbO3:Er3+single crystals. Physica Status Solidi C: Current Topics in Solid State Physics, 2005, 2, 175-179.	0.8	0
44	Detection of As, Cd and Pb in walnuts by using EXAFS spectrometry.. Microscopy and Microanalysis, 2008, 14, 712-713.	0.4	0
45	Influence of photoluminescent Si and ZnO QD multilayered films on solar cell efficiency. , 2018, , .		0