Enrique Alvarez

List of Publications by Year
in descending order

45 papers	564 citations	623734 14 h-index	642732 23 g-index
45 all docs	45 docs citations	45 times ranked	626 citing authors

#	Article	IF	Citations
1	Anomalous Stokes shift of colloidal quantum dots and their influence on solar cell performance. Microsystem Technologies, 2022, 28, 1505-1513.	2.0	1
2	Luminescence and study of channels for cross-relaxation dependent on the concentration of Sm3+ under simultaneous UV-IR excitation in tellurite-germanate glasses. Journal of Alloys and Compounds, 2021, 854, 157076.	5.5	13
3	Zinc sulfide quantum dots coated with PVP: applications on commercial solar cells. Journal of Materials Science: Materials in Electronics, 2021, 32, 1457-1465.	2.2	6
4	Structural and optical modifications of CdS properties in CdS-Au thin films prepared by CBD. Results in Physics, 2021, 22, 103914.	4.1	8
5	Study of the optical properties and cross relaxation process of Dy3+ under simultaneous UV-IR excitation in tellurite glasses. Journal of Luminescence, 2021, 233, 117874.	3.1	19
6	Down-shifting and down-conversion emission properties of novel CdOâ€“P2O5 invert glasses activated with Pr3+ and Pr3+/Yb3+ for photonic applications. Optical Materials, 2021, 116, 111009.	3.6	9
7	Synthesis of silicon quantum dots using chitosan as a novel reductor agent. Revista Mexicana De FÃsica, 2021, 67, 249-254.	0.4	1
8	Deep photothermal effect induced by stereotactic laser beams in highly scattering media. Optics Letters, 2021, 46, 4248.	3.3	1
9	Structural, luminescent and upconversion characteristics of Er3+ doped titanium zinc tellurite glass. Optical Materials, 2021, 120, 111413.	3.6	11
10	Silica-Coated ZnS Quantum Dots for Multicolor Emission Tuning from Blue to White Light. ACS Applied Nano Materials, 2021, 4, 12180-12187.	5.0	5
11	Cu-doped CdS thin films by chemical bath deposition and ion exchange. Journal of Materials Science: Materials in Electronics, 2020, 31, 1722-1730.	2.2	19
12	Photoluminescent properties of ZnO nanorods films used to detect methanol contamination in tequila. Sensors and Actuators A: Physical, 2020, 312, 112142.	4.1	11
13	Tunable White-Light Emission of Co2+ and Mn2+ Co-Doped ZnS Nanoparticles by Energy Transfer between Dopant Ions. Journal of Physical Chemistry C, 2020, 124, 3857-3866.	3.1	20
14	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
15	Synthesis of Si and CdTe quantum dots and their combined use as down-shifting photoluminescent centers in Si solar cells. Materials for Renewable and Sustainable Energy, 2019, 8, 1.	3.6	2
16	ZnS and ZnO nanocomposite for near white light tuning applications. , 2019, , .		2
17	Fiber optic sensor using ZnO for detection of adulterated tequila with methanol. Optical Fiber Technology, 2019, 52, 101982.	2.7	5
18	Co-emission and energy transfer of Sm3+ and/or Eu3+ activated zinc-germanate- tellurite glass as a potential tunable orange to reddish-orange phosphor. Journal of Non-Crystalline Solids, 2019, 521, 119462.	3.1	28

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19	Tunable emission and energy transfer in TeO2-GeO2-ZnO and TeO2-GeO2-MgCl2 glasses activated with Eu3+/Dy3+ for solid state lighting applications. Journal of Luminescence, 2019, 212, 116-125.	3.1	29
20	Stabilized blue emitting ZnS@SiO2 quantum dots. Optical Materials, 2019, 89, 396-401.	3.6	14
21	Sunlight-driven phytochemical synthesis of silver nanoparticles using aqueous extract of Albizia lebbeck (L) Benth. Materials Research Express, 2019, 6, 125060.	1.6	3
22	Seedless synthesis of silver nanoparticles using sunlight and study of the effect of different ratios of precursors. Materials Research Express, 2019, 6, 045067.	1.6	4
23	Effect of degradation on tribological performance of engine lubricants at elevated temperatures. Tribology International, 2018, 124, 230-237.	5.9	44
24	Solar cell efficiency improvement employing down-shifting silicon quantum dots. Microsystem Technologies, 2018, 24, 495-502.	2.0	25
25	Yellow to orange-reddish glass phosphors: Sm3+, Tb3+ and Sm3+/Tb3+ in zinc tellurite-germanate glasses. Optical Materials, 2018, 75, 88-93.	3.6	40
26	Solar cell efficiency improvement by photon absorption enhancement employing rare earth doped films. Journal of Physics: Conference Series, 2018, 1052, 012068.	0.4	2
27	ZnS quantum dots coated with PVP to enhance solar cell performance. , 2018, , .		1
28	Influence of photoluminescent Si and ZnO QD multilayered films on solar cell efficiency. , 2018, , .		0
29	Low intensity sonosynthesis of iron carbide@iron oxide core-shell nanoparticles. Ultrasonics Sonochemistry, 2018, 49, 303-309.	8.2	12
30	Enhanced conversion efficiency in Si solar cells employing photoluminescent down-shifting CdSe/CdS core/shell quantum dots. Scientific Reports, 2017, 7, 14104.	3.3	44
31	Photo-mediated Seedless Synthesis of Silver Nanoparticles Using CW-Laser and Sunlight Irradiation. Microscopy and Microanalysis, 2017, 23, 1902-1903.	0.4	3
32	Stimulation of the photoluminescent properties of CBDâ€CdS thin films achieved by structural modifications resulting from Ag⁺ doping. Physica Status Solidi - Rapid Research Letters, 2017, 11, 1700134.	2.4	5
33	Utilization of down-shifting photoluminescent ZnO quantum dots on solar cells. Materials Research Express, 2017, 4, 076203.	1.6	14
34	Comparison of spatially and temporally resolved diffuse transillumination measurement systems for extraction of optical properties of scattering media. Applied Optics, 2017, 56, 9199.	1.8	3
35	Influence of photo-luminescent CdSe/CdS core shell quantum dots in solar cell efficiency. Journal of Physics: Conference Series, 2016, 773, 012088.	0.4	2
36	Enhancing the power conversion efficiency of solar cells employing down-shifting silicon quantum dots. Journal of Physics: Conference Series, 2016, 773, 012087.	0.4	5

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37	Hollow Auâ€“Ag bimetallic nanoparticles with high photothermal stability. RSC Advances, 2016, 6, 41304-41312.	3.6	29
38	Effect of CeO₂ on the Glass Structure of Sodium Germanate Glasses. Journal of the American Ceramic Society, 2014, 97, 3494-3500.	3.8	35
39	Soda-zinc-aluminosilicate glasses doped with Tb3+, Ce3+, and Sm3+for frequency conversion and white light generation. , 2011, , .		3
40	Cold white light generation from hafnium oxide films activated with Ce³⁺, Tb³⁺, and Mn²⁺ ions. Journal of Materials Research, 2010, 25, 484-490.	2.6	24
41	Glycine lithium nitrate crystals: growth and optical properties. Radiation Effects and Defects in Solids, 2009, 164, 523-532.	1.2	4
42	Band structure, optical properties and infrared spectrum of glycineâ€“sodium nitrate crystal. Journal of Molecular Structure, 2008, 875, 295-301.	3.6	53
43	Achromatic reconstruction of femtosecond holograms in the planar optical waveguide. Optics Letters, 2008, 33, 2401.	3.3	4
44	Detection of As, Cd and Pb in walnuts by using EXAFS spectrometry.. Microscopy and Microanalysis, 2008, 14, 712-713.	0.4	0
45	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