

Nithiananthi P

List of Publications by Year in descending order

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55
papers

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687363

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55
docs citations

55
times ranked

194
citing authors

#	ARTICLE	IF	CITATIONS
1	ZnO nanostructures with different morphology for enhanced photocatalytic activity. <i>Materials Research Express</i> , 2017, 4, 124003.	1.6	38
2	Sb ₂ S ₃ entrenched MWCNT composite as a low-cost Pt-free counter electrode for dye-sensitized solar cell and a viewpoint for a photo-powered energy system. <i>Electrochimica Acta</i> , 2021, 390, 138864.	5.2	31
3	Shape effect of diamagnetic susceptibility of a hydrogenic donor in a nano structured semiconductor systems. <i>Journal of Mathematical Chemistry</i> , 2008, 44, 743-748.	1.5	29
4	EFFECT OF TEMPERATURE ON THE BINDING ENERGY OF LOW LYING EXCITED STATES IN A QUANTUM WELL. <i>International Journal of Modern Physics B</i> , 2003, 17, 5811-5817.	2.0	23
5	Enhancing the power conversion efficiency of SrTiO ₃ /CdS/Bi ₂ S ₃ quantum dot based solar cell using phosphor. <i>Applied Surface Science</i> , 2019, 494, 551-560.	6.1	22
6	Effect of Γ -X band crossover and impurity location on the diamagnetic susceptibility of a donor in a quantum well. <i>Solid State Communications</i> , 2006, 138, 305-308.	1.9	20
7	Pressure study on the semiconductor-metal transition in a quantum well. <i>Physica Status Solidi (B): Basic Research</i> , 2009, 246, 1238-1242.	1.5	20
8	Effect of phosphor on the efficiency of TiO ₂ /CdS/Ag ₂ S heterostructure based solar cells. <i>Materials Letters</i> , 2019, 240, 291-294.	2.6	20
9	TiO ₂ /Graphene Quantum Dots core-shell based photo anodes with TTIP treatment- A perspective way of enhancing the short circuit current. <i>Solar Energy Materials and Solar Cells</i> , 2020, 205, 110239.	6.2	20
10	Effect of confinement potential on exciton diamagnetism in the perspective of constituent carriers in a Quantum Well. <i>Journal of Physics and Chemistry of Solids</i> , 2018, 114, 187-194.	4.0	19
11	Semiconductor-metal transition in a quantum well. <i>Physica B: Condensed Matter</i> , 2007, 391, 113-117.	2.7	15
12	Effect of laser intensity on the semiconductor-metal transition in a doped Quantum Well. <i>Superlattices and Microstructures</i> , 2009, 46, 710-714.	3.1	14
13	Bi ₂ S ₃ can do it all: Sensitizer, counter electrode, and supercapacitor for symmetric solar cell assisted photo-supercapacitor. <i>International Journal of Energy Research</i> , 2022, 46, 11065-11078.	4.5	13
14	INFLUENCE OF PRESSURE ON THE DIAMAGNETIC SUSCEPTIBILITY OF HYDROGENIC DONOR IN SOME LOW-LYING EXCITED STATES IN A QUANTUM WELL. <i>International Journal of Nanoscience</i> , 2007, 06, 37-40.	0.7	11
15	Diamagnetic susceptibility: An indicator of pressure induced donor localization in a double quantum well. <i>Superlattices and Microstructures</i> , 2016, 92, 232-241.	3.1	11
16	Indirect to direct exciton transition by laser irradiance in a type II core/ shell quantum dot. <i>Materials Science in Semiconductor Processing</i> , 2019, 103, 104617.	4.0	11
17	MWCNT Aided Cobalt Antimony Sulfide Electrocatalyst for Dye-Sensitized Solar Cells and Supercapacitors: Designing Integrated Photo-Powered Energy System. <i>Journal of the Electrochemical Society</i> , 2022, 169, 056518.	2.9	11
18	EFFECT OF Γ -X CROSSOVER ON THE DONOR BINDING ENERGY IN A QUANTUM WELL. <i>International Journal of Modern Physics B</i> , 2005, 19, 3861-3868.	2.0	10

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19	Tailoring the electronic properties of concentric double quantum rings in the presence of a donor impurity. <i>Journal of Applied Physics</i> , 2019, 125, .	2.5	10
20	LASER INDUCED SEMICONDUCTORâ€“METAL TRANSITION IN A SEMIMAGNETIC QUANTUM WELL. <i>International Journal of Nanoscience</i> , 2011, 10, 611-615.	0.7	6
21	Oscillator strength and carrier dynamics in type I and inverted type I spherical core/ shell nanostructures under external laser field. <i>Superlattices and Microstructures</i> , 2019, 135, 106288.	3.1	6
22	Influence of electric field on direct and indirect exciton in a concentrically coupled quantum ring heterostructure embedded in SiO ₂ matrix. <i>Superlattices and Microstructures</i> , 2020, 137, 106334.	3.1	6
23	Microwave synthesis and analysis of Sb ₂ S ₃ nanostructures as IR photon-absorber and counter electrode for the design of symmetric solar cells. <i>Materials Letters</i> , 2020, 276, 128160.	2.6	6
24	Tuning the dynamics of Bound Magnetic Polaron in asymmetric Cd _{1-x} Mnx ₁ Te/Cd _{1-x} 2Mnx ₂ Te Semimagnetic Concentric Double Quantum Rings: Through magnetic ion concentration and magnetic field. <i>Physica B: Condensed Matter</i> , 2021, 600, 412615.	2.7	6
25	Laser Induced Semiconductor-Metal Transition in a Quantum Well. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 5669-5672.	0.9	5
26	EFFECT OF LASER ON THE NONPARABOLICITY OF THE CONDUCTION BAND AND HYDROGENIC IMPURITY STATES IN A SEMICONDUCTOR QUANTUM WELL. <i>International Journal of Modern Physics B</i> , 2011, 25, 1785-1790.	2.0	4
27	Effect of ion size of various salts of Chitosan on the electrical properties. <i>AIP Conference Proceedings</i> , 2013, , .	0.4	4
28	Hartree-Fock approximation for Exciton Mott transition in double quantum well: Direct and Indirect exciton diamagnetism. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020, 119, 114008.	2.7	4
29	Simultaneous effect of laser and magnetic field on bound magnetic polaron in type I and reverse type I core/shell semimagnetic nanostructures. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021, 128, 114613.	2.7	4
30	Alternative <sc>lowâ€“cost</sc> photon sensitizer for <sc>dyeâ€“sensitized</sc> solar cells using less explored natural fabric dyes. <i>International Journal of Energy Research</i> , 2021, 45, 7764-7782.	4.5	4
31	EFFECT OF DIELECTRIC SCREENING ON THE DIAMAGNETIC SUSCEPTIBILITY OF A DONOR IN LOW DIMENSIONAL SEMICONDUCTING SYSTEMS. <i>International Journal of Modern Physics B</i> , 2009, 23, 2069-2075.	2.0	3
32	Impurity States and diamagnetic susceptibility of a donor in a triangular quantum well. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	3
33	Combined effect of stress and nonparabolicity on the diamagnetic susceptibility of donor states in a double quantum well. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	3
34	Effect of non-parabolicity and confinement potential on exciton binding energy in a quantum well. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	3
35	Coulomb interaction of acceptors in Cd _{1-â€“x} MnxTe/CdTe quantum dot. , 2014, , .		2
36	Effect of magnetic field on the donor impurity in CdTe/Cd _{1-x} MnxTe quantum well wire. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	2

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37	Dynamics of bound magnetic polaron in Cd _{1-x} MnxTe/ CdTe core/ shell nanostructure. AIP Conference Proceedings, 2019, , .	0.4	2
38	Estimation of dimensional criticality for direct to indirect exciton transition in a double Quantum Well: Through exciton diamagnetism. Materials Today Communications, 2019, 21, 100725.	1.9	2
39	Performance of TiO ₂ /CdS/Bi ₂ S ₃ heterostructure based semiconductor sensitized solar cell. AIP Conference Proceedings, 2019, , .	0.4	2
40	Magnetization of donor in reversed Type I core shell nanostructures. AIP Conference Proceedings, 2020, , .	0.4	2
41	Exciton Mott transition through diamagnetic susceptibility in a quantum well. AIP Conference Proceedings, 2020, , .	0.4	2
42	Diluted magnetic concentric double quantum rings embedded in a quantum well: effect of magnetic field and ring dimension. European Physical Journal Plus, 2021, 136, 1.	2.6	2
43	Quantum confinement of a hydrogenic donor in a double quantum well: Through diamagnetic susceptibility. AIP Conference Proceedings, 2015, , .	0.4	1
44	Magnetic field effect on the Coulomb interaction of acceptors in semimagnetic quantum dot. AIP Conference Proceedings, 2015, , .	0.4	1
45	On the ZnO/graphene quantum dots (GQDs) based dye sensitized solar cells. AIP Conference Proceedings, 2018, , .	0.4	1
46	Effect of confining potential on the exciton stability at various locations in a parabolic and square quantum ring. Physica Scripta, 2020, 95, 055102.	2.5	1
47	A basic analysis of electrochemical impedance in Bismuth Ferrite based solar cell. Materials Today: Proceedings, 2021, 35, 6-10.	1.8	1
48	Laser Dressed Magnetic Polaron In Semimagnetic Core/Shell Nanostructure. ECS Journal of Solid State Science and Technology, 2021, 10, 081010.	1.8	1
49	Influence of Γ^c -X band mixing on the excited donor in a parabolic quantum well. , 2013, , .		0
50	Effect of geometry on the screened acceptor binding energy in a quantum wire. , 2014, , .		0
51	Exciton in a spherical core/shell nanostructure: Influence of surface ligand. AIP Conference Proceedings, 2018, , .	0.4	0
52	Polaronic effects on direct and indirect excitons in a ZnSe/MgS double quantum well. AIP Conference Proceedings, 2019, , .	0.4	0
53	Pressure induced transition of direct to indirect excitons in double quantum well: Effect of Γ^c -X crossover. Physica E: Low-Dimensional Systems and Nanostructures, 2021, 126, 114482.	2.7	0
54	Stability of indirect and direct excitons through diamagnetic susceptibility in a concentric double quantum ring structure. AIP Conference Proceedings, 2020, , .	0.4	0

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55	Carrier dynamics in quantum ring in a quantum well: Magnetic field and non-parabolicity effects. AIP Conference Proceedings, 2020, , .	0.4	0