Muhammad Arshad Kamran

List of Publications by Year
in descending order

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35 papers	477 citations	933447 10 h-index	677142 22 g-index
35 all docs	35 docs citations	35 times ranked	618 citing authors

#	Article	IF	Citations
1	Tunable emission properties by ferromagnetic coupling Mn(II) aggregates in Mn-doped CdS microbelts/nanowires. Nanotechnology, 2014, 25, 385201.	2.6	57
2	Near Infrared Emission Band and Origin in Ni(II)-Doped CdS Nanoribbons by CVD Technique. Journal of Physical Chemistry C, 2013, 117, 17777-17785.	3.1	52
3	Bosonic Lasing from Collective Exciton Magnetic Polarons in Diluted Magnetic Nanowires and Nanobelts. ACS Photonics, 2016, 3, 1809-1817.	6.6	48
4	Single-Step Synthesis of Monolithic Comb-like CdS Nanostructures with Tunable Waveguide Properties. Nano Letters, 2013, 13, 2997-3001.	9.1	47
5	Tailoring the electrical and photo-electrical properties of a WS₂ field effect transistor by selective n-type chemical doping. RSC Advances, 2016, 6, 24675-24682.	3.6	40
6	Large tunable luminescence by Mn(<scp>ii</scp>) aggregates in Mn-doped ZnS nanobelts. Journal of Materials Chemistry C, 2017, 5, 8749-8757.	5.5	36
7	Formation of an MoTe₂ based Schottky junction employing ultra-low and high resistive metal contacts. RSC Advances, 2019, 9, 10017-10023.	3.6	27
8	Gallium vacancies role in hydrogen storage of single-crystalline GaN hexagonal micro-sheets. International Journal of Hydrogen Energy, 2020, 45, 4731-4742.	7.1	18
9	Dual-Color Lasing Lines from EMPs in Diluted Magnetic Semiconductor CdS:NiI Structure. Research, 2019, 2019, 6956937.	5.7	17
10	Electronic structure and optical properties of TaNO: An ab initio study. Journal of Molecular Graphics and Modelling, 2019, 92, 296-302.	2.4	15
11	Stimuli-responsive fluorescent hyperbranched poly(amido amine)s for biosensing applications. European Polymer Journal, 2020, 124, 109486.	5.4	11
12	Photoluminescence and Magnetic Properties of Mn-Doped ZnS Nanobelts. Nanoscience and Nanotechnology Letters, 2014, 6, 706-710.	0.4	11
13	Group delay of single-photon transmission in a waveguide side coupled with a Jaynes-Cummings chain. Journal of Applied Physics, 2013, 113, 143105.	2.5	10
14	Novel Cd-CdS micro/nano heterostructures: Synthesis and luminescence properties. Optical Materials, 2017, 73, 527-534.	3.6	10
15	Tunable emission and conductivity enhancement by tellurium doping in CdS nanowires for optoelectronic applications. Physica E: Low-Dimensional Systems and Nanostructures, 2017, 86, 81-87.	2.7	10
16	Revealing the optoelectronic properties of Re-based double perovskites using the Tran-Blaha modified Becke-Johnson with density functional theory. Journal of Molecular Modeling, 2020, 26, 158.	1.8	9
17	Role of Ni²⁺(d⁸) ions in electrical, optical and magnetic properties of CdS nanowires for optoelectronic and spintronic applications. Nanotechnology, 2018, 29, 265602.	2.6	8
18	Enhancement in the mobility of solution processable polymer based FET by incorporating graphene interlayer. Superlattices and Microstructures, 2020, 137, 106331.	3.1	8

#	Article	IF	Citations
19	Novel low-temperature synthesis and optical properties of 1D-ZnTe nanowires. Journal of Science: Advanced Materials and Devices, 2018, 3, 226-229.	3.1	7
20	The aggregation of Mn2+, its d-d transition in CdS:Mn(II) nanobelts and bound magnetic polaron formation at room temperature. Nanotechnology, 2018, 29, 435702.	2.6	7
21	Synthesis of Novel Sea-Urchin-Like CdS and Their Optical Properties. Journal of Nanoscience and Nanotechnology, 2015, 15, 4435-4441.	0.9	6
22	The length controllable synthesis and near-infrared photoluminescence of one-dimensional ternary Cu4Bi4S9 semiconductor nanobelts. Materials Research Bulletin, 2014, 49, 180-186.	5.2	5
23	Tailoring of optical modes of semiconductor microcavities via metal and dielectric gratings. Optics Letters, 2012, 37, 5085.	3.3	3
24	Morphology-Controlled Synthesis of Single Crystalline Î±-Mn₂O₃ Sea-Urchins Assembled with Pen-Type Nanoneedles and Broad Absorption Spectrum. Journal of Nano Research, 2015, 33, 38-48.	0.8	2
25	Synthesis and Photoluminescence of Single-Crystalline Fe(III)-Doped CdS Nanobelts. Journal of Nanoscience and Nanotechnology, 2016, 16, 4086-4093.	0.9	2
26	Single-channel dual tunable emission in the visible and near-infrared region using aggregations of Mn(II) ions in an individual Mn-doped CdS nanosheet. Journal of Physics and Chemistry of Solids, 2019, 132, 197-203.	4.0	2
27	Mn(II) Ions Assisted Near-Infrared Single-Mode Lasing from an Individual Mn-Doped CdS Nanobelts. Journal of Nanoscience and Nanotechnology, 2019, 19, 4172-4177.	0.9	2
28	Substitutional site effects of Cr(II) ions on optical and magnetic properties of 1D CdS semiconductor nanoneedles for optoelectronic and spintronic applications. Inorganic Chemistry Communication, 2020, 121, 108224.	3.9	2
29	Large-Scale Synthesis of Highly Pure Novel Cadmium Semi-Spheres and Their Anomalous Optical Properties. Science of Advanced Materials, 2014, 6, 2666-2672.	0.7	2
30	Enhanced photoresponse and surface charge transfer mechanism of graphene-tungsten disulfide heterojunction. Optical Materials, 2019, 98, 109426.	3.6	1
31	A first-principles investigation on electronic, optical and thermoelectric properties of $$hbox {La}_{2}hbox {Pd}_{2}hbox {O}_{5}$$ compound. Bulletin of Materials Science, 2020, 43, 1.	1.7	1
32	Activation of infrared emission in (iodine, nickel) Co-Doped CdS nanobelts for solar cells and optoelectronic applications. Physica B: Condensed Matter, 2020, 594, 412328.	2.7	1
33	'Corrigendum: Role of Ni2+(d8) ions in electrical, optical and magnetic properties of CdS nanowires for optoelectronic and spintronic applications (2018 Nanotechnology 29 265602)'. Nanotechnology, 2018, , .	2.6	0
34	Tunable emission in ferromagnetic CdS:Dy3+ nanostructures for optoelectronic and spintronic applications. Physica B: Condensed Matter, 2021, 613, 412894.	2.7	0
35	Effect of Al doping on Photoluminescence and Conductivity of 1D CdS Nanobelts synthesized by CVD for Optoelectronic Applications. Journal of Science: Advanced Materials and Devices, 2022, , 100464.	3.1	0