Abdul Majid

List of Publications by Year
in descending order

123	1,228	471061	552369
papers	citations	17 h-index	26 g-index

126	126	126	1344
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A DFT study of electronic, vibrational and optical properties of gold clusters. Optical and Quantum Electronics, 2022, 54, 1.	1.5	5
2	Controlled transformation of V-doped Co(OH)2 hexagonal nanosheets towards enhanced electrochemical performance. Journal of Energy Storage, 2022, 48, 103995.	3.9	10
3	A density functional theory study of electronic properties of transition metals doped silicon carbide monolayer. International Journal of Quantum Chemistry, 2022, 122, .	1.0	2
4	First-Principles Study of Antiferromagnetic Superexchange Interactions Between TiAl-VN Complexes in AlN. Journal of Superconductivity and Novel Magnetism, 2022, 35, 889-898.	0.8	3
5	The effects of polar solvents on structural, electronic, and optical properties of organic dyes. International Journal of Quantum Chemistry, 2022, 122, .	1.0	2
6	Characterization of Eu doped ZnO micropods prepared by chemical bath deposition on p-Si substrate. Vacuum, 2022, 198, 110874.	1.6	12
7	First principles study of layered silicon carbide as anode in lithium ion battery. International Journal of Quantum Chemistry, 2022, 122, .	1.0	8
8	Doped TiO₂ slabs for water splitting: a DFT study. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2022, 77, 603-612.	0.7	3
9	A DFT study of silver decorated bismuthene for gas sensing properties and effect of humidity. Materials Science in Semiconductor Processing, 2022, 145, 106635.	1.9	14
10	First Principles Study of Layered CrGeTe₃ as Lithium Intercalation Compound. Journal of the Electrochemical Society, 2022, 169, 040557.	1.3	5
11	Electrochemical Investigation of PANI:PPy/AC and PANI:PEDOT/AC Composites as Electrode Materials in Supercapacitors. Polymers, 2022, 14, 1976.	2.0	12
12	Ab Initio Study on Dopant Relaxation Mechanism in Ti and Ce Cationically Substituted in Wurtzite Gallium Nitride. Materials, 2022, 15, 3599.	1.3	0
13	Structural, morphological, optical, and electrical studies of Tb-doped ZnO micropods elaborated by chemical bath deposition on a p-Si substrate. Applied Physics A: Materials Science and Processing, 2022, 128, .	1.1	2
14	Firstâ€principles study of fâ€orbitalâ€dependent band topology of topological rare earth hexaborides. International Journal of Quantum Chemistry, 2021, 121, e26452.	1.0	3
15	A firstâ€principles study on improvement of photoinjection in organic dyes. International Journal of Quantum Chemistry, 2021, 121, e26596.	1.0	1
16	A DFT study of structural and thermal properties of 2D layers. International Journal of Quantum Chemistry, 2021, 121, e26625.	1.0	0
17	A computational study of intercalation of streptozotocin (STZ) into DNA base pairs. Journal of Molecular Modeling, 2021, 27, 78.	0.8	4
18	Iodide Adsorption on Transition-Metal-Doped SiC Monolayers: A Density Functional Theory Based Bonding Analysis. Journal of Electronic Materials, 2021, 50, 3546-3556.	1.0	0

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19	A DFT study of bismuthene as anode material for alkali-metal (Li/Na/K)-ion batteries. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 266, 115061.	1.7	35
20	Computational study of borophene/boron nitride (B/BN) interface as a promising gas sensor for industrial affiliated gasses. Physica E: Low-Dimensional Systems and Nanostructures, 2021, 130, 114692.	1.3	20
21	Intercalation of Lithium inside Bilayer Buckled Borophene: A First Principles Prospective. Journal of the Electrochemical Society, 2021, 168, 070535.	1.3	13
22	Green synthesis of spherical TiO2 nanoparticles using Citrus Limetta extract: Excellent photocatalytic water decontamination agent for RhB dye. Inorganic Chemistry Communication, 2021, 129, 108618.	1.8	45
23	Computational insights of alkali metal (Li / Na / K) atom decorated buckled bismuthene for hydrogen storage. International Journal of Hydrogen Energy, 2021, 46, 28700-28708.	3.8	16
24	On the prospects of layeredness in tantalum pentoxide. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 272, 115349.	1.7	4
25	Photoinjection and carrier recombination kinetics in photoanode based on (TM)FeO3 adsorbed TiO2 quantum dots. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 273, 115423.	1.7	1
26	Layered silicon carbide: a novel anode material for lithium ion batteries. New Journal of Chemistry, 2021, 45, 19105-19117.	1.4	12
27	Structural and Uniaxial Magnetic Anisotropy of Co1-XMgX(XÂ=â€‰0.04â€“0.12) Nanowires in Alumina Templates. Journal of Superconductivity and Novel Magnetism, 2020, 33, 809-815.	0.8	0
28	Gadolinium-based olivine phosphate for upgradation of cathode material in lithium ion battery. Journal of Materials Science: Materials in Electronics, 2020, 31, 7324-7334.	1.1	3
29	Assessment of 2Hâ€“SiC based intercalation compound for use as anode in lithium ion batteries. Ceramics International, 2020, 46, 5297-5305.	2.3	15
30	A DFT study on a borophene/boron nitride interface for its application as an electrode. Physical Chemistry Chemical Physics, 2020, 22, 3304-3313.	1.3	33
31	Dominance of Shape Anisotropy among Magnetostatic Interaction and Magnetocrystalline Anisotropy in Electrodeposited (FeCo)1â^xCux (Xâ€‰=â€‰0.1â€“0.5) Ternary Alloy Nanowires. Journal of Superconductivity and Novel Magnetism, 2020, 33, 1495-1505.	0.8	8
32	Cation effect on electronic, optical and thermoelectric properties of perovskite oxynitrides: Density functional theory. Materials Science in Semiconductor Processing, 2020, 107, 104800.	1.9	6
33	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.	1.8	2
34	First principles study of SiC as the anode in sodium ion batteries. New Journal of Chemistry, 2020, 44, 8910-8921.	1.4	9
35	Theoretical study of (TM)FeO3 (TM = 3d transition metals) molecular clusters. Journal of Nanoparticle Research, 2020, 22, 1.	0.8	3
36	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.	0.8	9

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37	DFTB Investigations on Transition Metals Doped TiO2 Quantum Dots. Journal of Electronic Materials, 2020, 49, 3659-3667.	1.0	2
38	Synthesis of PEDOT: PPy/AC composite as an electrode for supercapacitor. Journal of Materials Science: Materials in Electronics, 2020, 31, 13597-13609.	1.1	17
39	Activation of infrared emission in (iodine, nickel) Co-Doped CdS nanobelts for solar cells and optoelectronic applications. Physica B: Condensed Matter, 2020, 594, 412328.	1.3	1
40	First principles study of structural, electronic and magnetic properties of transition metals doped SiC monolayers for applications in spintronics. Journal of Magnetism and Magnetic Materials, 2020, 503, 166648.	1.0	12
41	Ab-initio study of Cu-based oxychalcogenides: A new class of materials for optoelectronic applications. Journal of Solid State Chemistry, 2020, 284, 121191.	1.4	5
42	Timeâ€dependent density functional theory investigations on structural modification in carbazoleâ€based organic photosensitizers to improve electron injection in dyeâ€sensitized solar cell. International Journal of Quantum Chemistry, 2020, 120, e26253.	1.0	13
43	A review of the interfacial properties of 2-D materials for energy storage and sensor applications. Chinese Journal of Physics, 2020, 66, 246-257.	2.0	28
44	Electronic structure and optical properties of TaNO: An ab initio study. Journal of Molecular Graphics and Modelling, 2019, 92, 296-302.	1.3	15
45	Gate dependent phonon shift in tungsten disulfide (WS₂) field effect transistor. Materials Research Express, 2019, 6, 115909.	0.8	11
46	Laser Surface Hardening of Gun Metal Alloys. Materials, 2019, 12, 2632.	1.3	6
47	Tailoring the electrical properties of MoTe2 field effect transistor via chemical doping. Superlattices and Microstructures, 2019, 135, 106247.	1.4	35
48	First principles investigations of vibrational properties of titania and zirconia clusters. Journal of Nanoparticle Research, 2019, 21, 1.	0.8	5
49	A review on transition metal doped silicon carbide. Ceramics International, 2019, 45, 8069-8080.	2.3	22
50	First principles study of transition metals doped SiC for application as counter electrode in DSSC. Surface Science, 2019, 687, 41-47.	0.8	15
51	Structural and Electronic Properties of PPy-DBSA/Zirconium Oxide Composites. Polymer Science - Series A, 2019, 61, 105-111.	0.4	1
52	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.	1.9	2
53	First Principles Study of Dendritic Carbazole Photosensitizer Dyes Modified with Different Conjugation Structures. ChemistrySelect, 2019, 4, 2787-2794.	0.7	5
54	Firstâ€principles study of vibrational properties of TiSiO₄ clusters. International Journal of Quantum Chemistry, 2019, 119, e25924.	1.0	3

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55	Optical Properties of Titaniaâ€“Zirconia Clusters: a TD-DFT Study. Journal of Cluster Science, 2019, 30, 707-713.	1.7	4
56	Effects of thermal annealing on structural and magnetic properties of Mn ions implanted AlInN/GaN films. Journal of Magnetism and Magnetic Materials, 2019, 469, 618-622.	1.0	3
57	Voltage dependent physical, dielectric and magnetic properties of electrodeposited Co1âˆ’xMnx alloy nanowires. Journal of Magnetism and Magnetic Materials, 2019, 474, 207-214.	1.0	1
58	A Review on Novel Eco-Friendly Green Approach to Synthesis TiO2 Nanoparticles Using Different Extracts. Journal of Inorganic and Organometallic Polymers and Materials, 2018, 28, 1552-1564.	1.9	85
59	A Computational Study of Ferromagnetic Exchange Interactions and Charge Transfer in Codoped Gallium Nitride. Journal of Superconductivity and Novel Magnetism, 2018, 31, 475-481.	0.8	4
60	A perspective on non-stoichiometry in silicon carbide. Ceramics International, 2018, 44, 1277-1283.	2.3	19
61	Effects of Mn Ion Implantation on XPS Spectroscopy of GaN Thin Films. Journal of Electronic Materials, 2018, 47, 1555-1559.	1.0	14
62	Wet Chemical Synthesis Methods. Topics in Mining, Metallurgy and Materials Engineering, 2018, , 43-101.	1.4	3
63	Ferromagnetism in GaN doped with transition metals and rare-earth elements: A review. Chinese Journal of Physics, 2018, 56, 1570-1577.	2.0	13
64	Electrochemical properties of PANI/MoS2 nanosheet composite as an electrode materials. Journal of Materials Science: Materials in Electronics, 2018, 29, 16080-16087.	1.1	6
65	Intensity Dependent Photoconductivity in ZnO Nanostructured Film. , 2018, 1, 23-30.		3
66	Synthesis and characterization of Zn/ZnO microspheres on indented sites of silicon substrate. Materials Science-Poland, 2018, 36, 501-508.	0.4	9
67	A DFT study of electronic interactions in Ti:AlN: GGA and GGA + U approaches. Journal of Magnetism and Magnetic Materials, 2017, 432, 351-355.	1.0	3
68	First principles study of vibrational dynamics of ceria-titania hybrid clusters. Journal of Nanoparticle Research, 2017, 19, 1.	0.8	7
69	Influence of voltage variation on structure and magnetic properties of Co1âˆ’x Sn x (XÂ=Â0.3â€“0.7) nanowire alloys in alumina by electrochemical deposition. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	1.1	10
70	A DFT study of intrinsic point defects in monolayer MoSe2. AIP Advances, 2017, 7, .	0.6	35
71	Novel Cd-CdS micro/nano heterostructures: Synthesis and luminescence properties. Optical Materials, 2017, 73, 527-534.	1.7	10
72	Large tunable luminescence by Mn(<scp>ii</scp>) aggregates in Mn-doped ZnS nanobelts. Journal of Materials Chemistry C, 2017, 5, 8749-8757.	2.7	36

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73	Computational study of titania-ceria hybrid clusters for electrochemical applications. Journal of Nanoparticle Research, 2017, 19, 1.	0.8	5
74	Effects of transition metal ions doping on optical and electronic properties of GaN. Journal of Materials Science: Materials in Electronics, 2017, 28, 10596-10602.	1.1	1
75	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.	1.3	10
76	Magnetization Reversal and Surface Spins in Electrodeposited Co90Mn10 Alloy Nanowires. Journal of Superconductivity and Novel Magnetism, 2017, 30, 505-509.	0.8	0
77	Ferromagnetic Relaxation and Magnetic Properties of Co40Fe40B20 Thin Films. Journal of Superconductivity and Novel Magnetism, 2017, 30, 469-473.	0.8	1
78	Photodynamic Effect of Ni Nanotubes on an HeLa Cell Line. PLoS ONE, 2016, 11, e0150295.	1.1	8
79	Resonant Raman scattering study of V, Cr and Co ions implanted into GaN. RSC Advances, 2016, 6, 73589-73594.	1.7	8
80	A density functional theory study of electronic and magnetic properties of rare earth doped monolayered molybdenum disulphide. Journal of Applied Physics, 2016, 120, .	1.1	32
81	A computational study of magnetic exchange interactions of 3d and 4f electrons in Ti-Ce co-doped AlN. Materials Chemistry and Physics, 2016, 179, 316-321.	2.0	24
82	Controlling the electronic properties of Gd: MoS2 monolayer with perpendicular electric field. Journal of Electroceramics, 2016, 37, 29-33.	0.8	6
83	Role of nitrogen vacancies in cerium doped aluminum nitride. Journal of Magnetism and Magnetic Materials, 2016, 412, 49-54.	1.0	15
84	Facile Synthesis of Mn-Doped CdTe Nanoparticles: Structural and Magnetic Properties. Journal of Superconductivity and Novel Magnetism, 2016, 29, 2615-2619.	0.8	6
85	A density functional theory study of electronic properties of substitutional alloying of monolayer MoS 2 and CeS 2 surface models. Computational and Theoretical Chemistry, 2016, 1084, 98-102.	1.1	4
86	AC Potential-Dependent Concentration Variation and Domain Wall Pinning in Co1â^'x Zn x (x=0.4â^'0.5) Nanorods. Journal of Superconductivity and Novel Magnetism, 2016, 29, 509-513.	0.8	7
87	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.	1.7	40
88	First order Raman scattering analysis of transition metal ions implanted GaN. Journal of Physics and Chemistry of Solids, 2016, 90, 35-39.	1.9	4
89	DFT study of cerium doped aluminum nitride. EPJ Applied Physics, 2015, 71, 10101.	0.3	9
90	A DFT study of the effects of Sc doping on electronic and optical properties of CdS nanoparticles. Materials Science-Poland, 2015, 33, 782-791.	0.4	3

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91	First-principles study of the electronic and the magnetic properties of Cr-doped wurtzite cadmium sulfide (Cd1â^'x Cr x S, x = 12.5% and 6.25%). Journal of the Korean Physical Society, 2015, 67, 518-524.	0.3	4
92	Ti_{Ga}â€“V_N complexes in GaN: a new prospect of carrier mediated ferromagnetism. RSC Advances, 2015, 5, 87437-87444.	1.7	13
93	Experimental and computational analysis of transition metal ion-doped AlInN/GaN thin films. RSC Advances, 2015, 5, 72592-72600.	1.7	4
94	Cerium induced ferromagnetic exchange interactions in GaN. Journal of Magnetism and Magnetic Materials, 2015, 374, 676-679.	1.0	12
95	DFT study of electronic and structural properties of Sm:GaN. Computational Materials Science, 2014, 88, 71-75.	1.4	4
96	Cu2O/TiO2 nanoporous thin-film heterojunctions: Fabrication and electrical characterization. Materials Science in Semiconductor Processing, 2014, 25, 181-185.	1.9	13
97	A density functional theory study of 3dâ€“4f exchange interactions in Crâ€“Nd codoped GaN. Journal of Magnetism and Magnetic Materials, 2014, 368, 384-392.	1.0	11
98	Structural modifications of GaN after cerium implantation. Journal of Raman Spectroscopy, 2013, 44, 136-141.	1.2	7
99	Structural and electrical properties of doped polypyrrole and its composite with montmorillonite clay. Polymer Science - Series A, 2013, 55, 279-284.	0.4	2
100	A density functional theory study of electronic properties of Ce:GaN. Computational Materials Science, 2013, 79, 929-932.	1.4	7
101	Structural modifications of AlInN/GaN thin films by neon ion implantation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2013, 377, 2986-2989.	0.9	6
102	Optical signatures of Ce related traps in GaN. Journal of Applied Physics, 2013, 113, 113504.	1.1	2
103	Electronic structure analysis of rare earth ions Ce and Nd doped gallium nitride. Journal of Applied Physics, 2013, 114, 123703.	1.1	7
104	A Density Functional Theory Study of Raman Modes of Hydrogenated Cadmium Sulphide Nanoparticles. Nanomaterials and Nanotechnology, 2012, 2, 7.	1.2	4
105	Optical, electronic and magnetic properties of Cr:GaN thin films. Materials Chemistry and Physics, 2012, 136, 809-815.	2.0	12
106	Predicting lattice constant of complex cubic perovskites using computational intelligence. Computational Materials Science, 2011, 50, 1879-1888.	1.4	27
107	A comparative study of structural, thermal and electrical properties of undoped and doped with dodecylbenzenesulphonic acid polypyrrole. Polymer Science - Series B, 2011, 53, 540-545.	0.3	4
108	Synthesis and Physical Properties of Mn Doped ZnO Dilute Magnetic Semiconductor Nanostructures. Journal of Superconductivity and Novel Magnetism, 2011, 24, 699-704.	0.8	12

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109	Structural, Optical and Magnetic Properties of Ceâ€“GaN Based Diluted Magnetic Semiconductor. Journal of Superconductivity and Novel Magnetism, 2011, 24, 585-590.	0.8	15
110	Band tailing effects in neon-implanted GaN. Journal of Applied Physics, 2009, 106, .	1.1	13
111	Annealing effects on the structural, optical and magnetic properties of Mn implanted GaN. Journal Physics D: Applied Physics, 2009, 42, 135401.	1.3	11
112	Effect of Î²-irradiation on photoluminescence of MOCVD grown GaN. Journal of Materials Science: Materials in Electronics, 2009, 20, 14-16.	1.1	1
113	Mnâ€“AlInN: a new diluted magnetic semiconductor. Applied Physics A: Materials Science and Processing, 2009, 96, 979-984.	1.1	8
114	Effect of isochronal annealing on photoluminescence properties of Mn-implanted GaN. Journal of Luminescence, 2009, 129, 40-43.	1.5	4
115	Study of lattice damage produced by neon implantation into AlInN. Journal of Materials Science: Materials in Electronics, 2009, 20, 230-233.	1.1	1
116	Red shift of near band edge emission in cerium implanted GaN. Journal Physics D: Applied Physics, 2009, 42, 045412.	1.3	34
117	Effect of temperature on thermally induced defects in silicon. Journal of Materials Science: Materials in Electronics, 2008, 19, 267-269.	1.1	0
118	Interaction of Î± radiation with iron-doped n-type silicon. Microelectronics Journal, 2008, 39, 797-801.	1.1	1
119	Structural characterization of Mn implanted AlInN. Journal Physics D: Applied Physics, 2008, 41, 115404.	1.3	5
120	Effect of annealing on photoluminescence properties of neon implanted GaN. Journal Physics D: Applied Physics, 2008, 41, 025107.	1.3	9
121	Annealing kinetics of gold and ironâ€“gold complex. Journal of Materials Science, 2007, 42, 4753-4756.	1.7	1
122	Iron and gold related defects in water quenched silicon. Journal of Materials Science: Materials in Electronics, 2007, 18, 421-425.	1.1	2
123	Temperature dependence of absorption edge in MOCVD grown GaN. Journal of Materials Science: Materials in Electronics, 2007, 18, 1229-1233.	1.1	5