

Abdul Majid

List of Publications by Year in descending order

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123
papers

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#	ARTICLE	IF	CITATIONS
1	A Review on Novel Eco-Friendly Green Approach to Synthesis TiO ₂ Nanoparticles Using Different Extracts. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2018, 28, 1552-1564.	1.9	85
2	Green synthesis of spherical TiO ₂ nanoparticles using Citrus Limetta extract: Excellent photocatalytic water decontamination agent for RhB dye. <i>Inorganic Chemistry Communication</i> , 2021, 129, 108618.	1.8	45
3	Tailoring the electrical and photo-electrical properties of a WS ₂ field effect transistor by selective n-type chemical doping. <i>RSC Advances</i> , 2016, 6, 24675-24682.	1.7	40
4	Large tunable luminescence by Mn(II) aggregates in Mn-doped ZnS nanobelts. <i>Journal of Materials Chemistry C</i> , 2017, 5, 8749-8757.	2.7	36
5	A DFT study of intrinsic point defects in monolayer MoSe ₂ . <i>AIP Advances</i> , 2017, 7, .	0.6	35
6	Tailoring the electrical properties of MoTe ₂ field effect transistor via chemical doping. <i>Superlattices and Microstructures</i> , 2019, 135, 106247.	1.4	35
7	A DFT study of bismuthene as anode material for alkali-metal (Li/Na/K)-ion batteries. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021, 266, 115061.	1.7	35
8	Red shift of near band edge emission in cerium implanted GaN. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 045412.	1.3	34
9	A DFT study on a borophene/boron nitride interface for its application as an electrode. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 3304-3313.	1.3	33
10	A density functional theory study of electronic and magnetic properties of rare earth doped monolayered molybdenum disulphide. <i>Journal of Applied Physics</i> , 2016, 120, .	1.1	32
11	A review of the interfacial properties of 2-D materials for energy storage and sensor applications. <i>Chinese Journal of Physics</i> , 2020, 66, 246-257.	2.0	28
12	Predicting lattice constant of complex cubic perovskites using computational intelligence. <i>Computational Materials Science</i> , 2011, 50, 1879-1888.	1.4	27
13	A computational study of magnetic exchange interactions of 3d and 4f electrons in Ti-Ce co-doped AlN. <i>Materials Chemistry and Physics</i> , 2016, 179, 316-321.	2.0	24
14	A review on transition metal doped silicon carbide. <i>Ceramics International</i> , 2019, 45, 8069-8080.	2.3	22
15	Computational study of borophene/boron nitride (B/BN) interface as a promising gas sensor for industrial affiliated gasses. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021, 130, 114692.	1.3	20
16	A perspective on non-stoichiometry in silicon carbide. <i>Ceramics International</i> , 2018, 44, 1277-1283.	2.3	19
17	Synthesis of PEDOT: PPy/AC composite as an electrode for supercapacitor. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 13597-13609.	1.1	17
18	Computational insights of alkali metal (Li / Na / K) atom decorated buckled bismuthene for hydrogen storage. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 28700-28708.	3.8	16

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19	Structural, Optical and Magnetic Properties of Ce-doped GaN Based Diluted Magnetic Semiconductor. Journal of Superconductivity and Novel Magnetism, 2011, 24, 585-590.	0.8	15
20	Role of nitrogen vacancies in cerium doped aluminum nitride. Journal of Magnetism and Magnetic Materials, 2016, 412, 49-54.	1.0	15
21	Electronic structure and optical properties of TaNO: An ab initio study. Journal of Molecular Graphics and Modelling, 2019, 92, 296-302.	1.3	15
22	First principles study of transition metals doped SiC for application as counter electrode in DSSC. Surface Science, 2019, 687, 41-47.	0.8	15
23	Assessment of 2H-doped SiC based intercalation compound for use as anode in lithium ion batteries. Ceramics International, 2020, 46, 5297-5305.	2.3	15
24	Effects of Mn Ion Implantation on XPS Spectroscopy of GaN Thin Films. Journal of Electronic Materials, 2018, 47, 1555-1559.	1.0	14
25	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
26	Band tailing effects in neon-implanted GaN. Journal of Applied Physics, 2009, 106, .	1.1	13
27	Cu ₂ O/TiO ₂ nanoporous thin-film heterojunctions: Fabrication and electrical characterization. Materials Science in Semiconductor Processing, 2014, 25, 181-185.	1.9	13
28	Ti _{1-x} Ga _x V _{1-x} N _x complexes in GaN: a new prospect of carrier mediated ferromagnetism. RSC Advances, 2015, 5, 87437-87444.	1.7	13
29	Ferromagnetism in GaN doped with transition metals and rare-earth elements: A review. Chinese Journal of Physics, 2018, 56, 1570-1577.	2.0	13
30	Time-dependent density functional theory investigations on structural modification in carbazole-based organic photosensitizers to improve electron injection in dye-sensitized solar cell. International Journal of Quantum Chemistry, 2020, 120, e26253.	1.0	13
31	Intercalation of Lithium inside Bilayer Buckled Borophene: A First Principles Prospective. Journal of the Electrochemical Society, 2021, 168, 070535.	1.3	13
32	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
33	Optical, electronic and magnetic properties of Cr:GaN thin films. Materials Chemistry and Physics, 2012, 136, 809-815.	2.0	12
34	Cerium induced ferromagnetic exchange interactions in GaN. Journal of Magnetism and Magnetic Materials, 2015, 374, 676-679.	1.0	12
35	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
36	Layered silicon carbide: a novel anode material for lithium ion batteries. New Journal of Chemistry, 2021, 45, 19105-19117.	1.4	12

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37	Characterization of Eu doped ZnO micropods prepared by chemical bath deposition on p-Si substrate. <i>Vacuum</i> , 2022, 198, 110874.	1.6	12
38	Electrochemical Investigation of PANI:PPy/AC and PANI:PEDOT/AC Composites as Electrode Materials in Supercapacitors. <i>Polymers</i> , 2022, 14, 1976.	2.0	12
39	Annealing effects on the structural, optical and magnetic properties of Mn implanted GaN. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 135401.	1.3	11
40	A density functional theory study of 3d-4f exchange interactions in Cr-Nd codoped GaN. <i>Journal of Magnetism and Magnetic Materials</i> , 2014, 368, 384-392.	1.0	11
41	Gate dependent phonon shift in tungsten disulfide (WS_2) field effect transistor. <i>Materials Research Express</i> , 2019, 6, 115909.	0.8	11
42	Influence of voltage variation on structure and magnetic properties of $Co_{1-x}Sn_x$ ($x=0.3-0.7$) nanowire alloys in alumina by electrochemical deposition. <i>Applied Physics A: Materials Science and Processing</i> , 2017, 123, 1.	1.1	10
43	Novel Cd-CdS micro/nano heterostructures: Synthesis and luminescence properties. <i>Optical Materials</i> , 2017, 73, 527-534.	1.7	10
44	Tunable emission and conductivity enhancement by tellurium doping in CdS nanowires for optoelectronic applications. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017, 86, 81-87.	1.3	10
45	Controlled transformation of V-doped $Co(OH)_2$ hexagonal nanosheets towards enhanced electrochemical performance. <i>Journal of Energy Storage</i> , 2022, 48, 103995.	3.9	10
46	Effect of annealing on photoluminescence properties of neon implanted GaN. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 025107.	1.3	9
47	DFT study of cerium doped aluminum nitride. <i>EPJ Applied Physics</i> , 2015, 71, 10101.	0.3	9
48	First principles study of SiC as the anode in sodium ion batteries. <i>New Journal of Chemistry</i> , 2020, 44, 8910-8921.	1.4	9
49	Revealing the optoelectronic properties of Re-based double perovskites using the Tran-Blaha modified Becke-Johnson with density functional theory. <i>Journal of Molecular Modeling</i> , 2020, 26, 158.	0.8	9
50	Synthesis and characterization of Zn/ZnO microspheres on indented sites of silicon substrate. <i>Materials Science-Poland</i> , 2018, 36, 501-508.	0.4	9
51	$Mn_{1-x}Al_xN$: a new diluted magnetic semiconductor. <i>Applied Physics A: Materials Science and Processing</i> , 2009, 96, 979-984.	1.1	8
52	Photodynamic Effect of Ni Nanotubes on an HeLa Cell Line. <i>PLoS ONE</i> , 2016, 11, e0150295.	1.1	8
53	Resonant Raman scattering study of V, Cr and Co ions implanted into GaN. <i>RSC Advances</i> , 2016, 6, 73589-73594.	1.7	8
54	Dominance of Shape Anisotropy among Magnetostatic Interaction and Magnetocrystalline Anisotropy in Electrodeposited $(FeCo)_{1-x}Cu_x$ ($x=0.1-0.5$) Ternary Alloy Nanowires. <i>Journal of Superconductivity and Novel Magnetism</i> , 2020, 33, 1495-1505.	0.8	8

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55	First principles study of layered silicon carbide as anode in lithium ion battery. International Journal of Quantum Chemistry, 2022, 122, .	1.0	8
56	Structural modifications of GaN after cerium implantation. Journal of Raman Spectroscopy, 2013, 44, 136-141.	1.2	7
57	A density functional theory study of electronic properties of Ce:GaN. Computational Materials Science, 2013, 79, 929-932.	1.4	7
58	Electronic structure analysis of rare earth ions Ce and Nd doped gallium nitride. Journal of Applied Physics, 2013, 114, 123703.	1.1	7
59	AC Potential-Dependent Concentration Variation and Domain Wall Pinning in $\text{Co}_{1-x}\text{Zn}_x$ ($x=0.4\sim 0.5$) Nanorods. Journal of Superconductivity and Novel Magnetism, 2016, 29, 509-513.	0.8	7
60	First principles study of vibrational dynamics of ceria-titania hybrid clusters. Journal of Nanoparticle Research, 2017, 19, 1.	0.8	7
61	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
62	Controlling the electronic properties of Gd: MoS ₂ monolayer with perpendicular electric field. Journal of Electroceramics, 2016, 37, 29-33.	0.8	6
63	Facile Synthesis of Mn-Doped CdTe Nanoparticles: Structural and Magnetic Properties. Journal of Superconductivity and Novel Magnetism, 2016, 29, 2615-2619.	0.8	6
64	Electrochemical properties of PANI/MoS ₂ nanosheet composite as an electrode materials. Journal of Materials Science: Materials in Electronics, 2018, 29, 16080-16087.	1.1	6
65	Laser Surface Hardening of Gun Metal Alloys. Materials, 2019, 12, 2632.	1.3	6
66	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
67	Temperature dependence of absorption edge in MOCVD grown GaN. Journal of Materials Science: Materials in Electronics, 2007, 18, 1229-1233.	1.1	5
68	Structural characterization of Mn implanted AlInN. Journal Physics D: Applied Physics, 2008, 41, 115404.	1.3	5
69	Computational study of titania-ceria hybrid clusters for electrochemical applications. Journal of Nanoparticle Research, 2017, 19, 1.	0.8	5
70	First principles investigations of vibrational properties of titania and zirconia clusters. Journal of Nanoparticle Research, 2019, 21, 1.	0.8	5
71	First Principles Study of Dendritic Carbazole Photosensitizer Dyes Modified with Different Conjugation Structures. ChemistrySelect, 2019, 4, 2787-2794.	0.7	5
72	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

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73	A DFT study of electronic, vibrational and optical properties of gold clusters. Optical and Quantum Electronics, 2022, 54, 1.	1.5	5
74	First Principles Study of Layered CrGeTe ₃ as Lithium Intercalation Compound. Journal of the Electrochemical Society, 2022, 169, 040557.	1.3	5
75	Effect of isochronal annealing on photoluminescence properties of Mn-implanted GaN. Journal of Luminescence, 2009, 129, 40-43.	1.5	4
76	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
77	A Density Functional Theory Study of Raman Modes of Hydrogenated Cadmium Sulphide Nanoparticles. Nanomaterials and Nanotechnology, 2012, 2, 7.	1.2	4
78	DFT study of electronic and structural properties of Sm:GaN. Computational Materials Science, 2014, 88, 71-75.	1.4	4
79	First-principles study of the electronic and the magnetic properties of Cr-doped wurtzite cadmium sulfide (Cd _{1-x} Cr _x S, x = 12.5% and 6.25%). Journal of the Korean Physical Society, 2015, 67, 518-524.	0.3	4
80	Experimental and computational analysis of transition metal ion-doped AlInN/GaN thin films. RSC Advances, 2015, 5, 72592-72600.	1.7	4
81	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
82	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
83	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
84	Optical Properties of Titania-Zirconia Clusters: a TD-DFT Study. Journal of Cluster Science, 2019, 30, 707-713.	1.7	4
85	A computational study of intercalation of streptozotocin (STZ) into DNA base pairs. Journal of Molecular Modeling, 2021, 27, 78.	0.8	4
86	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
87	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
88	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
89	Wet Chemical Synthesis Methods. Topics in Mining, Metallurgy and Materials Engineering, 2018, , 43-101.	1.4	3
90	First-principles study of vibrational properties of TiSiO ₄ clusters. International Journal of Quantum Chemistry, 2019, 119, e25924.	1.0	3

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91	Effects of thermal annealing on structural and magnetic properties of Mn ions implanted AlN/GaN films. Journal of Magnetism and Magnetic Materials, 2019, 469, 618-622.	1.0	3
92	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
93	Theoretical study of (TM)FeO ₃ (TM = 3d transition metals) molecular clusters. Journal of Nanoparticle Research, 2020, 22, 1.	0.8	3
94	First-principles study of orbital-dependent band topology of topological rare earth hexaborides. International Journal of Quantum Chemistry, 2021, 121, e26452.	1.0	3
95	Intensity Dependent Photoconductivity in ZnO Nanostructured Film. , 2018, 1, 23-30.		3
96	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
97	Doped TiO ₂ slabs for water splitting: a DFT study. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2022, 77, 603-612.	0.7	3
98	Iron and gold related defects in water quenched silicon. Journal of Materials Science: Materials in Electronics, 2007, 18, 421-425.	1.1	2
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	Optical signatures of Ce related traps in GaN. Journal of Applied Physics, 2013, 113, 113504.	1.1	2
101	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
102	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
103	DFTB Investigations on Transition Metals Doped TiO ₂ Quantum Dots. Journal of Electronic Materials, 2020, 49, 3659-3667.	1.0	2
104	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
105	The effects of polar solvents on structural, electronic, and optical properties of organic dyes. International Journal of Quantum Chemistry, 2022, 122, .	1.0	2
106	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
107	Annealing kinetics of gold and iron-gold complex. Journal of Materials Science, 2007, 42, 4753-4756.	1.7	1
108	Interaction of γ radiation with iron-doped n-type silicon. Microelectronics Journal, 2008, 39, 797-801.	1.1	1

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109	Effect of γ -irradiation on photoluminescence of MOCVD grown GaN. Journal of Materials Science: Materials in Electronics, 2009, 20, 14-16.	1.1	1
110	Study of lattice damage produced by neon implantation into AlInN. Journal of Materials Science: Materials in Electronics, 2009, 20, 230-233.	1.1	1
111	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
112	Ferromagnetic Relaxation and Magnetic Properties of Co ₄₀ Fe ₄₀ B ₂₀ Thin Films. Journal of Superconductivity and Novel Magnetism, 2017, 30, 469-473.	0.8	1
113	Structural and Electronic Properties of PPy-DBSA/Zirconium Oxide Composites. Polymer Science - Series A, 2019, 61, 105-111.	0.4	1
114	Voltage dependent physical, dielectric and magnetic properties of electrodeposited Co _{1-x} Mn _x alloy nanowires. Journal of Magnetism and Magnetic Materials, 2019, 474, 207-214.	1.0	1
115	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
116	A first-principles study on improvement of photoinjection in organic dyes. International Journal of Quantum Chemistry, 2021, 121, e26596.	1.0	1
117	Photoinjection and carrier recombination kinetics in photoanode based on (TM)FeO ₃ adsorbed TiO ₂ quantum dots. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 273, 115423.	1.7	1
118	Effect of temperature on thermally induced defects in silicon. Journal of Materials Science: Materials in Electronics, 2008, 19, 267-269.	1.1	0
119	Magnetization Reversal and Surface Spins in Electrodeposited Co ₉₀ Mn ₁₀ Alloy Nanowires. Journal of Superconductivity and Novel Magnetism, 2017, 30, 505-509.	0.8	0
120	Structural and Uniaxial Magnetic Anisotropy of Co _{1-x} Mg _x (x=0.04-0.12) Nanowires in Alumina Templates. Journal of Superconductivity and Novel Magnetism, 2020, 33, 809-815.	0.8	0
121	A DFT study of structural and thermal properties of 2D layers. International Journal of Quantum Chemistry, 2021, 121, e26625.	1.0	0
122	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
123	Ab Initio Study on Dopant Relaxation Mechanism in Ti and Ce Cationically Substituted in Wurtzite Gallium Nitride. Materials, 2022, 15, 3599.	1.3	0