Mosayeb Naseri

List of Publications by Year in descending order

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95 papers	2,206 citations	201674 27 h-index	276875 41 g-index
96 all docs	96 docs citations	96 times ranked	1343 citing authors

#	Article	IF	Citations
1	Red-Green-Blue multi-channel quantum representation of digital images. Optik, 2017, 128, 121-132.	2.9	90
2	Micromorphology characterization of copper thin films by AFM and fractal analysis. Journal of Materials Science: Materials in Electronics, 2015, 26, 9630-9639.	2.2	81
3	A new secure quantum watermarking scheme. Optik, 2017, 139, 77-86.	2.9	80
4	All-optical half-subtractor with low-time delay based on two-dimensional photonic crystals. Superlattices and Microstructures, 2017, 109, 437-441.	3.1	74
5	First-principles investigation of nonmetal doped single-layer BiOBr as a potential photocatalyst with a low recombination rate. Physical Chemistry Chemical Physics, 2020, 22, 15354-15364.	2.8	74
6	A Novel LSB Based Quantum Watermarking. International Journal of Theoretical Physics, 2016, 55, 4205-4218.	1.2	71
7	Improved secure quantum sealed-bid auction. Optics Communications, 2009, 282, 4167-4170.	2.1	61
8	A scheme for secure quantum communication network with authentication using GHZ-like states and cluster states controlled teleportation. Quantum Information Processing, 2015, 14, 4279-4295.	2.2	61
9	Penta-P2X (X=C, Si) monolayers as wide-bandgap semiconductors: A first principles prediction. Frontiers of Physics, 2018, 13, 1.	5.0	60
10	Robust general N user authentication scheme in a centralized quantum communication network via generalized GHZ states. Frontiers of Physics, 2018, 13, 1.	5.0	56
11	Design of a high bitrate optical decoder based on photonic crystals. Journal of Computational Electronics, 2018, 17, 830-836.	2.5	52
12	A New Quantum Watermarking Based on Quantum Wavelet Transforms. Communications in Theoretical Physics, 2017, 67, 732.	2.5	48
13	Effect of electric field and vertical strain on the electro-optical properties of the MoSi2N4 bilayer: A first-principles calculation. Journal of Applied Physics, 2021, 129, .	2.5	48
14	Penta-SiC 5 monolayer: A novel quasi-planar indirect semiconductor with a tunable wide band gap. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 710-715.	2.1	46
15	Arsenic carbide monolayer: First principles prediction. Applied Surface Science, 2017, 423, 566-570.	6.1	45
16	First-principles prediction of a novel cadmium disulfide monolayer (penta-CdS2): Indirect to direct band gap transition by strain engineering. Chemical Physics Letters, 2017, 685, 310-315.	2.6	45
17	Shareability of correlations in multiqubit states: Optimization of nonlocal monogamy inequalities. Physical Review A, 2017, 95, .	2.5	43
18	Electronic and optical investigations of Be 2 C monolayer: Under stress and strain conditions. Materials Research Bulletin, 2017, 88, 49-55.	5.2	40

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19	Strain effect on the electronic and optical properties of 2D Tetrahexcarbon: a DFT-based study. Indian Journal of Physics, 2021, 95, 2365-2373.	1.8	39
20	A comprehensive investigation on electronic structure, optical and thermoelectric properties of the HfSSe Janus monolayer. Journal of Physics and Chemistry of Solids, 2020, 144, 109490.	4.0	36
21	Quantum redâ€“greenâ€“blue image steganography. International Journal of Quantum Information, 2017, 15, 1750039.	1.1	35
22	Two-dimensional buckled tetragonal cadmium chalcogenides including CdS, CdSe, and CdTe monolayers as photo-catalysts for water splitting. Physical Chemistry Chemical Physics, 2021, 23, 12226-12232.	2.8	35
23	Electronic and optical properties of pentagonal-B₂C monolayer: A first-principles calculation. International Journal of Modern Physics B, 2017, 31, 1750044.	2.0	32
24	Thickness dependence of the structural and electrical properties of ZnO thermal-evaporated thin films. Pramana - Journal of Physics, 2011, 77, 1171-1178.	1.8	31
25	Theoretical Prediction of an Antimony-Silicon Monolayer $$(hbox {penta-Sb}_{2}hbox) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 5 2290-2297.	2.2	31
26	Tuning of the electronic and optical properties of single-layer indium nitride by strain and stress. Physica E: Low-Dimensional Systems and Nanostructures, 2016, 83, 372-377.	2.7	28
27	Transition from indirect to direct band gap in SiC monolayer by chemical functionalization: A first principles study. Superlattices and Microstructures, 2020, 137, 106320.	3.1	28
28	Mn2CoX (X = P and As) full-Heusler compounds for spintronic applications: Half-metallicity and elastic properties. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126589.	2.1	28
29	Quantum Watermarking Using Entanglement Swapping. International Journal of Theoretical Physics, 2012, 51, 2094-2100.	1.2	26
30	A new stable polycrystalline Be2C monolayer: A direct semiconductor with hexa-coordinate carbons. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 2144-2148.	2.1	26
31	Prediction of novel SiX2(Xâ€¯=â€¯S, Se) monolayer semiconductors by density functional theory. Physica E: Low-Dimensional Systems and Nanostructures, 2019, 114, 113581.	2.7	25
32	Electronic and optical properties of paratellurite TeO2 under pressure: A first-principles calculation. Optik, 2017, 139, 9-15.	2.9	24
33	A novel quantum binary images thinning algorithm: A quantum version of the Hilditch's algorithm. Optik, 2017, 131, 678-686.	2.9	23
34	Examining the half-metallicity and thermoelectric properties of new equiatomic quaternary Heusler compound CoVRhGe under pressure. Physica B: Condensed Matter, 2020, 583, 412058.	2.7	23
35	A novel two-dimensional boronâ€“carbonâ€“nitride (BCN) monolayer: A first-principles insight. Journal of Applied Physics, 2021, 130, .	2.5	23
36	Pressure effects on the optical and electronic aspects of T-Carbon: A first principles calculation. Optik, 2019, 180, 125-133.	2.9	22

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37	Structural, electronic and optical properties of pristine and functionalized MgO monolayers: a first principles study. RSC Advances, 2020, 10, 40411-40420.	3.6	22
38	Investigation on the stability and electronic properties of Penta-XP5 (Xâ€¯=â€¯Al, Ga, In) monolayer semiconductors by using first principles calculations. Chemical Physics Letters, 2018, 706, 99-106.	2.6	20
39	A new cryptography algorithm for quantum images. Optik, 2018, 171, 947-959.	2.9	20
40	Electronic and thermoelectric properties of RbYSn half-Heusler compound with 8 valence electrons: Spin-orbit coupling effect. Chemical Physics, 2020, 528, 110510.	1.9	20
41	Reducing the electronic band gap of BN monolayer by coexistence of P(As)-doping and external electric field. Superlattices and Microstructures, 2020, 137, 106357.	3.1	20
42	High-Efficient Arbitrated Quantum Signature Scheme Based on Cluster States. International Journal of Theoretical Physics, 2017, 56, 609-616.	1.2	19
43	Quantum Selective Encryption for Medical Images. International Journal of Theoretical Physics, 2019, 58, 3908-3926.	1.2	19
44	Theoretical prediction of 2D XI2 (X=Si, Ge, Sn, Pb) monolayers by density functional theory. Journal of Molecular Graphics and Modelling, 2020, 95, 107501.	2.4	19
45	Magnesium carbide monolayer: A novel quasi-planar semiconductor. Superlattices and Microstructures, 2017, 102, 134-140.	3.1	18
46	Tuning the electronic and optical properties of XP(Xâ€¯=â€¯Al,Ga) monolayer semiconductors using biaxial strain effect: Modified Becke-Johnson calculations. Chemical Physics Letters, 2018, 691, 181-189.	2.6	18
47	First principles investigation on elastic, optoelectronic and thermoelectric properties of KYX (XÂ= Ge,) Tj ETQq1 1 0.784314 rgBT /Ove	2.4	18
48	Revisiting Quantum Authentication Scheme Based on Entanglement Swapping. International Journal of Theoretical Physics, 2016, 55, 2428-2435.	1.2	16
49	A New Quantum Gray-Scale Image Encoding Scheme. Communications in Theoretical Physics, 2018, 69, 215.	2.5	16
50	Prediction of 2D Li2X (X=Se, Te) monolayer semiconductors by first principles calculations. Physics Letters, Section A: General, Atomic and Solid State Physics, 2019, 383, 125992.	2.1	16
51	A new general model for quantum image histogram (QIH). Quantum Information Processing, 2019, 18, 1.	2.2	16
52	Structural and electronic properties of chemically functionalized SnC monolayer: a first principles study. Materials Research Express, 2020, 7, 015013.	1.6	16
53	Penta-BeP2 monolayer: A new 2D beryllium phosphate with a narrow band gap. Chemical Physics Letters, 2019, 728, 136-141.	2.6	15
54	Electronic structure, optical and thermoelectric properties of cadmium chalcogenides monolayers. Optik, 2020, 210, 164567.	2.9	15

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55	Buckling strain effects on electronic and optical aspects of penta-graphene nanostructure. Superlattices and Microstructures, 2019, 133, 106217.	3.1	14
56	Structural, electronic and optical properties of CdO monolayer and bilayers: Stacking effect investigations. Superlattices and Microstructures, 2020, 145, 106644.	3.1	14
57	Comment on: â€œsecure direct communication based on ping-pong protocolâ€•[Quantum Inf. Process. 8, 347 (2009)]. Quantum Information Processing, 2010, 9, 693-698.	2.2	13
58	Biaxial strain and external electric field effects on the electronic structure of hydrogenated GaN monolayer. Superlattices and Microstructures, 2019, 136, 106270.	3.1	13
59	Functionalizing AlN monolayer with hydroxyl group: Effect on the structural and electronic properties. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126444.	2.1	13
60	Elastic and optical properties of zinc-blende CrSb and its effective mass. Rare Metals, 2014, 33, 615-621.	7.1	12
61	Density functional theory based prediction of a new two-dimensional TeSe2 semiconductor: A case study on the electronic properties. Chemical Physics Letters, 2018, 707, 160-164.	2.6	12
62	2D Li2S monolayer: A global minimum lithium sulfide sandwich. Chemical Physics Letters, 2019, 722, 58-63.	2.6	12
63	2D Hexagonal SnTe monolayer: a quasi direct band gap semiconductor with strain sensitive electronic and optical properties. European Physical Journal B, 2020, 93, 1.	1.5	12
64	Eavesdropping on secure quantum telephone protocol with dishonest server. Optics Communications, 2009, 282, 3375-3378.	2.1	11
65	Multipartite non-locality and entanglement signatures of a field-induced quantum phase transition. European Physical Journal B, 2017, 90, 1.	1.5	10
66	A first-principles study of the electronic and optical properties of monolayer Î±-PbO. Chemical Physics Letters, 2019, 721, 27-32.	2.6	10
67	New equiatomic quaternary Heusler compounds without transition metals KCaBX (XÂ= S and Se): Robust half-metallicity and optical properties. Journal of Molecular Graphics and Modelling, 2020, 100, 107642.	2.4	9
68	Strain-tunable electronic, optical and thermoelectric properties of BP monolayer investigated by FP-LAPW calculations. Physica B: Condensed Matter, 2021, 603, 412757.	2.7	9
69	PROBABILISTIC BIDIRECTIONAL QUANTUM SECURE COMMUNICATION BASED ON A SHARED PARTIALLY ENTANGLED STATES. International Journal of Quantum Information, 2011, 09, 357-365.	1.1	8
70	Examining the uniform strain effect on elastic, electronic and optical properties of CsPbCl3 through FP-LAPW calculations. Chemical Physics, 2020, 531, 110654.	1.9	8
71	P-substitution effects on the electronic structure and thermal properties of the half-metallic half-Heusler NaCrBi compound. Chemical Physics, 2020, 537, 110848.	1.9	8
72	An assessment of the structural, electronic, optical and thermoelectric properties of the BaAg2GeS4 compound. Journal of Solid State Chemistry, 2020, 285, 121260.	2.9	8

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73	First principles analysis of the half-metallic ferromagnetism, elastic and thermodynamic properties of equiatomic quaternary Heusler compound CoCrRhSi. Materials Chemistry and Physics, 2021, 257, 123695.	4.0	8
74	Structural, electronic and optical properties of GeX (Xâ€‰=â€‰N, P and As) monolayer: under stress and strain conditions. Optical and Quantum Electronics, 2021, 53, 1.	3.3	8
75	An efficient double junction CIGS solar cell using a 4H-SiC nano layer. Optik, 2016, 127, 8646-8653.	2.9	7
76	A new kind of universal and flexible quantum information splitting scheme with multi-coin quantum walks. Quantum Information Processing, 2019, 18, 1.	2.2	7
77	LiCl monolayer for UV detection: First principles prediction. Physica E: Low-Dimensional Systems and Nanostructures, 2020, 123, 114168.	2.7	7
78	First principles insight into the structural, electronic, optical and thermodynamic properties of CsPb2Br5 compound. Chemical Physics, 2020, 533, 110704.	1.9	7
79	Computational investigation of the structural, electronic, optical and thermoelectric properties of T2-Al2MgC2 compound. Journal of Solid State Chemistry, 2019, 280, 120999.	2.9	6
80	Quantum teleportation of a N-qubit entangled state by using a ($$N+1$$)-qubit cluster state. Quantum Information Processing, 2021, 20, 1.	2.2	6
81	XSnS₃ (X = Ga, In) monolayer semiconductors as photo-catalysts for water splitting: a first principles study. Journal of Materials Chemistry C, 2022, 10, 11412-11423.	5.5	6
82	An Anonymous Surveying Protocol via Greenberger-Horne-Zeilinger States. International Journal of Theoretical Physics, 2016, 55, 4436-4444.	1.2	5
83	SiP2S monolayer: A two dimensional semiconductor with a moderate band gap. Chemical Physics Letters, 2019, 715, 100-104.	2.6	5
84	Hexatetra-Carbon: A Novel Two-Dimensional Semiconductor Allotrope of Carbon. Computation, 2022, 10, 19.	2.0	5
85	Computational prediction of the spin-polarized semiconductor equiatomic quaternary Heusler compound MnVZrP as a spin-filter. RSC Advances, 2020, 10, 25609-25617.	3.6	4
86	Prediction of a new 2D B2CO monolayer from density functional theory. Computational Materials Science, 2021, 186, 109975.	3.0	4
87	Effect of Si and Ge Surface Doping on the Be2C Monolayer: Case Study on Electrical and Optical Properties. Silicon, 2018, 10, 1893-1902.	3.3	3
88	Electronic, optical and thermoelectric properties of CaO mono- and bi-layers: Theoretical comparative investigation. Optik, 2020, 218, 165115.	2.9	3
89	A new stable BeP2C monolayer with visible light sensitivity: A first principles study. Chemical Physics Letters, 2019, 728, 14-18.	2.6	2
90	On the structural, electronic, optical and thermoelectric properties of CdIn2Se4 ordered-vacancy compound. Journal of Solid State Chemistry, 2020, 282, 121078.	2.9	2

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91	Second Comment on: â€˜â€˜Characterization of Micro-roughness Parameters in Titanium Nitride Thin Films Grown by DC Magnetron Sputteringâ€™â€™ [J Fusion Energ DOI 10.1007/s10894-012-9534-4]. Journal of Fusion Energy, 2012, 31, 593-594.	1.2	1
92	Strain tunable electronic and optical properties of 2D orthorhombic lithium sulfur monolayer. Chemical Physics, 2020, 535, 110762.	1.9	1
93	First principles prediction of XI (X=Be, Mg) monolayer semiconductors: Modified Becke-Johnson approach. Optik, 2019, 186, 332-338.	2.9	0
94	A computational prediction of a novel quasi hexagonal Al2SSi semiconductor monolayer. Chemical Physics, 2021, 545, 111148.	1.9	0
95	Prediction of a Beryllium Phosphide Iodide Monolayer as a Photocatalyst for Water Splitting by Density Functional Theory. Journal of Electronic Materials, 2022, 51, 2077-2082.	2.2	0