List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Synthesis of exfoliated multilayer graphene and its putative interactions with SARS-CoV-2 virus investigated through computational studies. Journal of Biomolecular Structure and Dynamics, 2022, 40, 712-721.	2.0	17
2	Mobility driven thermoelectric and optical properties of two-dimensional halide-based hybrid perovskites: impact of organic cation rotation. Physical Chemistry Chemical Physics, 2022, 24, 8867-8880.	1.3	7
3	Strain-mediated ferromagnetism and low-field magnetic reversal in Co doped monolayer \$\$WS_2\$\$. Scientific Reports, 2022, 12, 2593.	1.6	10
4	Strain modulating electronic band gaps and SQ efficiencies of semiconductor 2D PdQ2 (Q = S, Se) monolayer. Scientific Reports, 2022, 12, 2964.	1.6	19
5	Electronic bandstructure modulation of MoX2/ZnO(X:S,Se) heterostructure by applying external electric field. Surfaces and Interfaces, 2022, 29, 101817.	1.5	8
6	Capacity development of Pd doped Si2BN nanotube for hydrogen storage. International Journal of Hydrogen Energy, 2022, 47, 19132-19145.	3.8	6
7	Ab-initio study of formamidinium lead halide (FAPbX3, XÂ=ÂBr, Cl) perovskite's monolayers. Materials Today: Proceedings, 2022, 67, 20-24.	0.9	0
8	Selective and sensitive toxic gas-sensing mechanism in a 2D Janus MoSSe monolayer. Physical Chemistry Chemical Physics, 2022, 24, 15292-15304.	1.3	13
9	Prominent Electrode Material for Na-, K-, and Mg-ion Batteries: 2D β-Sb Monolayer. Energy & Fuels, 2022, 36, 7087-7095.	2.5	16
10	Systematic investigation of electronic, mechanical and optical properties of UO2 at higher pressure: A DFT+U+SOC study. Solid State Sciences, 2022, 132, 106968.	1.5	2
11	Transition metal substituted MoS2/WS2 van der Waals heterostructure for realization of dilute magnetic semiconductors. Journal of Magnetism and Magnetic Materials, 2022, 560, 169567.	1.0	6
12	Structural, electronic and optical properties of hexagonal boron-nitride (h-BN) monolayer: An Ab-initio study. Materials Today: Proceedings, 2021, 47, 529-532.	0.9	13
13	An ab-initio study of blue phosphorene monolayer: Electronic, vibrational and optical properties. Materials Today: Proceedings, 2021, 47, 576-579.	0.9	2
14	Ultrathin Pd and Pt nanowires for potential applications as hydrogen economy. Materials Today Communications, 2021, 26, 101761.	0.9	4
15	Ultrahigh carrier mobility and light-harvesting performance of 2D penta-PdX2 monolayer. Journal of Materials Science, 2021, 56, 3846-3860.	1.7	24
16	Mechanism of formaldehyde and formic acid formation on (101)-TiO ₂ @Cu ₄ systems through CO ₂ hydrogenation. Sustainable Energy and Fuels, 2021, 5, 564-574.	2.5	4
17	Strain dependent electronic transport of pristine Si and Ge nanowires. Computational Materials Science, 2021, 188, 110181.	1.4	3
18	ZnS/CdX (X = S, Se, Te) core/shell nanowires: an attempt at tuning the electronic bandgaps and SQ efficiencies. Journal of Materials Chemistry C, 2021, 9, 6605-6617.	2.7	4

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19	Hydrogenation and oxidation enhances the thermoelectric performance of Si ₂ BN monolayer. New Journal of Chemistry, 2021, 45, 3892-3900.	1.4	8
20	Carbon nanotubes for rapid capturing of SARS-COV-2 virus: revealing a mechanistic aspect of binding based on computational studies. RSC Advances, 2021, 11, 5785-5800.	1.7	15
21	Effect of Charge Injection on the Conducting Filament of Valence Change Anatase TiO ₂ Resistive Random Access Memory Device. Journal of Physical Chemistry Letters, 2021, 12, 1876-1884.	2.1	20
22	Exploring the transport and optoelectronic properties of silicon diselenide monolayer. Superlattices and Microstructures, 2021, 150, 106813.	1.4	9
23	Diffusion of oxygen in hypostoichiometric uranium dioxide nanocrystals. A molecular dynamics simulation. Chimica Techno Acta, 2021, 8, 20218107.	0.3	1
24	Salt-assisted growth of monolayer MoS2 for high-performance hysteresis-free field-effect transistor. Journal of Applied Physics, 2021, 129, .	1.1	19
25	Azahomofullerenes as New n-Type Acceptor Materials for Efficient and Stable Inverted Planar Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2021, 13, 20296-20304.	4.0	13
26	Van der waals SiSe2 homo-bilayers for optoelectronics applications. Superlattices and Microstructures, 2021, 152, 106858.	1.4	18
27	Atomistic investigations of melting characterization in metallic nanostructures. Surface Science, 2021, 707, 121803.	0.8	2
28	Antimonene Allotropes α- and β-Phases as Promising Anchoring Materials for Lithium–Sulfur Batteries. Energy & Fuels, 2021, 35, 9001-9009.	2.5	15
29	First-Principles Study of Mn-Doped and Nb-Doped CsPbCl ₃ Monolayers as an Absorber Layer in Solar Cells. Journal of Physical Chemistry Letters, 2021, 12, 7319-7327.	2.1	15
30	Ab-initio investigation of crystal structure and pressure induced phase transition in ThO2 and PuO2. Materials Today Communications, 2021, 28, 102579.	0.9	3
31	Modulation of band gap and optical response of layered MoX2 (XÂ=ÂS, Se, Te) for electronic and optoelectronic applications. Materials Today Communications, 2021, 28, 102614.	0.9	6
32	Electric Field-Modulated Charge Transfer in Geometrically Tailored MoX ₂ /WX ₂ (X = S, Se) Heterostructures. Journal of Physical Chemistry C, 2021, 125, 22360-22369.	1.5	15
33	Highly selective and reversible 2D PtX2 (XÂ=ÂP, As) hazardous gas sensors: Ab-initio study. Applied Surface Science, 2021, 563, 150391.	3.1	11
34	Dissociation of air pollutants on the uniform surface of pentagonal BeP2. Applied Surface Science, 2021, 570, 151061.	3.1	3
35	Potential SiX (X = N, P, As, Sb, Bi) homo-bilayers for visible-light photocatalyst applications. Catalysis Science and Technology, 2021, 11, 4996-5013.	2.1	18
36	Metallic one-dimensional heterostructure for gas molecule sensing. Scientific Reports, 2021, 11, 433.	1.6	2

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37	Enhanced thermoelectric properties in Sb/Ge core/shell nanowires through vacancy modulation. Scientific Reports, 2021, 11, 21921.	1.6	0
38	Modulation of vertical strain and electric field on C3As/arsenene heterostructure. Applied Nanoscience (Switzerland), 2020, 10, 107-116.	1.6	6
39	First-principles study of the electronic, magnetic and optical properties of Fe3Se4 in its monoclinic phase. Journal of Magnetism and Magnetic Materials, 2020, 498, 166157.	1.0	6
40	Adsorption of toxic gas molecules on the pre-oxidized Cu2Si nanosheet – A DFT study. Computational Materials Science, 2020, 173, 109414.	1.4	41
41	Structural and electrical properties of CeO2 monolayers using first-principles calculations. Solid State Communications, 2020, 307, 113801.	0.9	12
42	Synthesis and physicochemical characterization of rhamnolipid-stabilized carvacrol-loaded zein nanoparticles for antimicrobial application supported by molecular docking. Journal of Nanoparticle Research, 2020, 22, 1.	0.8	23
43	2D BeP ₂ monolayer: investigation of electronic and optical properties by driven modulated strain. RSC Advances, 2020, 10, 26804-26812.	1.7	13
44	Review: An insight into coronaviruses: Challenges, security and scope. Reviews in Medical Virology, 2020, 30, 1-8.	3.9	6
45	Ultrathin nanowire PdX ₂ (X = P, As): stability, electronic transport and thermoelectric properties. New Journal of Chemistry, 2020, 44, 15617-15624.	1.4	3
46	Structural, optical, transport, and solar cell properties of 2D halide perovskite MAZX3 (Z = Pb, Sn, and)	Tj ETQq0 I.1	0 0 rgBT /Ove 18
47	Rashba Splitting in Two Dimensional Hybrid Perovskite Materials for High Efficient Solar and Heat Energy Harvesting. Journal of Physical Chemistry Letters, 2020, 11, 7679-7686.	2.1	14
48	Elastic and thermal properties of terbium dihydride: An ab-initio study. AIP Conference Proceedings, 2020, , .	0.3	2
49	CdS/CdSe core/shell nanowire as cold anti-reflectors and high voltage nanodevices: A first principles study. AIP Conference Proceedings, 2020, , .	0.3	0
50	Transformation of electron density distribution induced by the cation point defects in uranium dioxide. Journal of Radioanalytical and Nuclear Chemistry, 2020, 325, 253-262.	0.7	0
51	Sputtering of material from the surface of PuO2 crystals by collision cascades impact. A molecular dynamics study. Nuclear Instruments & Methods in Physics Research B, 2020, 475, 39-43.	0.6	4
52	The impact of the collision cascades on the xenon and helium clusters in PuO2 crystals. A molecular dynamics simulation. Nuclear Instruments & Methods in Physics Research B, 2020, 476, 26-31.	0.6	7
53	Structural and electrical properties of ultrathin SiXC (X = 4, 5, 6) nanowires: A first principles calculation. AIP Conference Proceedings, 2020, , .	0.3	0
54	Correlation between experimental and theoretical study of scheelite and wolframite-type tungstates. Materials Today Communications, 2020, 25, 101417.	0.9	4

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55	Electronic structure and optical properties of β-CuSCN: A DFT study. Materials Today: Proceedings, 2020, 28, 164-167.	0.9	15
56	Metallic Sb/GaAs core/shell nanowire as cold anti-reflective coating for optical fibres. Materials Today: Proceedings, 2020, 28, 230-233.	0.9	4
57	Modulation of spin effect in electronic and vibrational properties of terbium dihydride (TbH2): An ab-initio study. International Journal of Hydrogen Energy, 2020, 45, 8783-8793.	3.8	3
58	Exploration of the strain and thermoelectric properties of hexagonal SiX (X = N, P, As, Sb, and Bi) monolayers. Physical Chemistry Chemical Physics, 2020, 22, 3990-3998.	1.3	39
59	A molecular simulation approach towards the development of universal nanocarriers by studying the pH- and electrostatic-driven changes in the dynamic structure of albumin. RSC Advances, 2020, 10, 13451-13459.	1.7	11
60	Lattice strain dependent optical properties of BaSnO3: First principle study. AIP Conference Proceedings, 2020, , .	0.3	0
61	Dimension dependent melting temperature of metallic nanoparticles. AIP Conference Proceedings, 2020, , .	0.3	0
62	Thermal conductivity of free-standing silicon nanowire using Raman spectroscopy. Nanotechnology, 2020, 31, 505701.	1.3	4
63	Quantum transport properties of Ni/Si nanowire for nano-electronic device application. AIP Conference Proceedings, 2019, , .	0.3	1
64	Influence of Li ion implantation on LO phonon broadening and bandgap opening in ZnO thin films. Journal of Alloys and Compounds, 2019, 806, 1138-1145.	2.8	7
65	Ab-initio study of strain engineering optical properties of RbPbI3. AIP Conference Proceedings, 2019, , .	0.3	2
66	Study of stability of 2D boron arsenide in air at atomic level. AIP Conference Proceedings, 2019, , .	0.3	0
67	Diameter dependency of characteristics of ultrathin Si nanowires. AIP Conference Proceedings, 2019, ,	0.3	1
68	Inquisitive Geometric Sites in h-BN Monolayer for Alkali Earth Metal Ion Batteries. Journal of Physical Chemistry C, 2019, 123, 19340-19346.	1.5	18
69	Effect of atomic order on the characteristic of SiGe nanowire. AIP Conference Proceedings, 2019, , .	0.3	1
70	Study of air stability mechanism of 2D boron antimonide. AIP Conference Proceedings, 2019, , .	0.3	2
71	High pressure cotunnite structure of ThO2: A DFT study. AIP Conference Proceedings, 2019, , .	0.3	2
72	Electronic and temperature dependent transport properties of ultrathin As and Sb nanowires. AIP Conference Proceedings, 2019, , .	0.3	0

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73	Study of interaction of nucleobases with ultrathin VO2 monoclinic nanowire. AIP Conference Proceedings, 2019, , .	0.3	Ο
74	The melting mechanisms of UO2 nanocrystals: A molecular dynamics simulation. AIP Conference Proceedings, 2019, , .	0.3	1
75	Stability and tunable electronic structure of planar phosphorus nanotubes. AIP Conference Proceedings, 2019, , .	0.3	Ο
76	Influence of defects on the diffusion of helium in uranium dioxide: Molecular dynamics study. AIP Conference Proceedings, 2019, , .	0.3	2
77	Energetic and structural investigation of thorium nanoclusters using first principles calculations. AIP Conference Proceedings, 2019, , .	0.3	0
78	Enhanced thermoelectric properties of BaReO3 perovskite by strain engineering. AIP Conference Proceedings, 2019, , .	0.3	0
79	Prospects for experimental realization of two-dimensional aluminium allotropes. Journal of Materials Chemistry C, 2019, 7, 2666-2675.	2.7	24
80	Two-dimensional silicon phosphide: low effective mass and direct band gap for future devices applications. Journal of Materials Science, 2019, 54, 11878-11888.	1.7	14
81	Spin polarization effect on the ground state and electronic properties of ErCu using DFT and DFT+U approaches. Physica B: Condensed Matter, 2019, 570, 122-127.	1.3	5
82	Surfactant prevented growth and enhanced thermophysical properties of CuO nanofluid. Journal of Molecular Liquids, 2019, 283, 550-557.	2.3	33
83	Computational study of electronic and optical properties of p-group atomic adsorption on α-Al2O3 (0001). Computational and Theoretical Chemistry, 2019, 1155, 101-108.	1.1	5
84	Structural, vibrational and optoelectronic properties of buckled metallic FeGe monolayer. Superlattices and Microstructures, 2019, 129, 62-68.	1.4	3
85	Two-Dimensional CH ₃ NH ₃ PbI ₃ with High Efficiency and Superior Carrier Mobility: A Theoretical Study. Journal of Physical Chemistry C, 2019, 123, 5231-5239.	1.5	41
86	Energetic stability and tuned electronic properties of boron-doped carbon phosphide monolayer. AIP Conference Proceedings, 2019, , .	0.3	0
87	The influence of edge structure on the optoelectronic properties of Si2BN quantum dot. Journal of Applied Physics, 2019, 126, .	1.1	17
88	Effect of electric field on optoelectronic properties of indiene monolayer for photoelectric nanodevices. Scientific Reports, 2019, 9, 17300.	1.6	18
89	First principles study of stability and electronic properties of Sn/Ge core-shell nanowire. AIP Conference Proceedings, 2019, , .	0.3	0
90	Electronic structure of ZnO/CdX (X= S, Se, Te) core/shell nanowires: DFT study. AlP Conference Proceedings, 2019, , .	0.3	3

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91	Efficient and selective sensing of nitrogen-containing gases by Si2BN nanosheets under pristine and pre-oxidized conditions. Applied Surface Science, 2019, 469, 775-780.	3.1	78
92	Conjugation of biomolecules onto antimonene surface for biomedical prospects: A DFT study. Chemical Physics Letters, 2019, 715, 115-122.	1.2	5
93	Electronic structure and effective charges on atoms near anion point defects in uranium dioxide. Computational Condensed Matter, 2019, 18, e00353.	0.9	1
94	Dependence of Strain on the Electronic and Thermoelectric Properties of Hexagonal Bismuthene. Springer Proceedings in Physics, 2019, , 397-403.	0.1	2
95	Realization of Switching Mechanism of CO2 by Alkaline Adatoms on g-B4N3 Surface. Springer Proceedings in Physics, 2019, , 423-440.	0.1	3
96	Modulation of optical properties with multilayer thickness in antimonene and indiene Â. Advanced Materials Letters, 2019, 10, 270-274.	0.3	7
97	Crystal Structure of AnO2 and Phase Transition at Higher Pressure: A Brief Review. Springer Proceedings in Physics, 2019, , 405-414.	0.1	0
98	Single layer of carbon phosphide as an efficient material for optoelectronic devices. Journal of Materials Science, 2018, 53, 8314-8327.	1.7	41
99	Effect on electronic and optical properties of Frenkel and Schottky defects in HfS2 monolayer. AIP Conference Proceedings, 2018, , .	0.3	5
100	Ab-initio study of thermodynamic properties of boron nanowire at atomic scale. AIP Conference Proceedings, 2018, , .	0.3	0
101	Improving electron transport in the hybrid perovskite solar cells using CaMnO3-based buffer layer. Nano Energy, 2018, 45, 287-297.	8.2	19
102	Boltzmann transport properties of ultra thin-layer of h-CX monolayers. AIP Conference Proceedings, 2018, , .	0.3	0
103	Ultrasonication effect on thermophysical properties of Al2O3 nanofluids. AIP Conference Proceedings, 2018, , .	0.3	8
104	Highly infrared sensitive VO ₂ nanowires for a nano-optical device. Physical Chemistry Chemical Physics, 2018, 20, 11109-11115.	1.3	11
105	Electronic, Magnetic and Optical Properties of 2D Metal Nanolayers: A DFT Study. Metals and Materials International, 2018, 24, 904-912.	1.8	6
106	Effect of strain engineering on 2D dichalcogenides transition metal: A DFT study. Computational Materials Science, 2018, 141, 235-242.	1.4	35
107	Pressure-Dependent Electronic and Transport Properties of Bulk Platinum Oxide by Density Functional Theory. Journal of Electronic Materials, 2018, 47, 1293-1301.	1.0	2
108	Free-standing Pt and Pd nanowires: strain-modulated stability and magnetic and thermoelectric properties. Physical Chemistry Chemical Physics, 2018, 20, 28114-28123.	1.3	6

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109	Si and Ge based metallic core/shell nanowires for nano-electronic device applications. Scientific Reports, 2018, 8, 16885.	1.6	18
110	The effect of filler geometry on thermo-optical and rheological properties of CuO nanofluid. Journal of Molecular Liquids, 2018, 272, 668-675.	2.3	21
111	Ab-initio calculation on electronic and optical properties of ThO2, UO2 and PuO2. Journal of Nuclear Materials, 2018, 511, 128-133.	1.3	20
112	β-armchair antimony nanotube: Structure, stability and electronic properties. AIP Conference Proceedings, 2018, , .	0.3	0
113	Electronic and transport properties of 1D aluminum at atomic scale. AIP Conference Proceedings, 2018, , .	0.3	1
114	Tuning conductivity in boron nanowire by edge geometry. AIP Conference Proceedings, 2018, , .	0.3	1
115	Achieving ultrahigh carrier mobilities and opening the band gap in two-dimensional Si ₂ BN. Physical Chemistry Chemical Physics, 2018, 20, 21716-21723.	1.3	30
116	First principles study of electronic structure and carrier mobility in β-armchair antimony nanotubes. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 2978-2983.	0.9	4
117	Catalytic activity of Cu4-cluster to adsorb H2S gas: h-BN nanosheet. AIP Conference Proceedings, 2018, , .	0.3	3
118	The electronic and optical properties of CH3NH3MoI3 perovskite. AIP Conference Proceedings, 2018, , .	0.3	0
119	Strain induced optical properties of BaReO3. AIP Conference Proceedings, 2018, , .	0.3	2
120	Strain induced structural and electronic properties of BaReO3: A DFT study. AIP Conference Proceedings, 2018, , .	0.3	2
121	Surfactant-assisted morphological studies of $\hat{I}\pm$ -Al2O3 nanoparticles. AIP Conference Proceedings, 2018, , .	0.3	1
122	Reaction temperature dependent shape-controlled studies of copper-oxide nanocrystals. Materials Research Express, 2018, 5, 065037.	0.8	8
123	Theoretical Investigation of Metallic Nanolayers For Charge-Storage Applications. ACS Applied Energy Materials, 2018, 1, 3428-3433.	2.5	19
124	MgF 2 monolayer as an anti-reflecting material. Solid State Communications, 2017, 252, 22-28.	0.9	27
125	Structural, electronic and ferroelectric properties of BaTcO3. AIP Conference Proceedings, 2017, , .	0.3	1
126	Electronic and transport properties of fluorite structure of La2Ce2O7. AIP Conference Proceedings, 2017, , .	0.3	1

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127	Effect of oxygen atom on electronic and optical properties of 2D monolayer of PtS2. AIP Conference Proceedings, 2017, , .	0.3	4
128	Modeling of diameter-dependent Fe and Co ultrathin nanowires from first-principles calculations. Physical Chemistry Chemical Physics, 2017, 19, 15412-15423.	1.3	17
129	Spin dependent calculation of calcium manganese oxide. AIP Conference Proceedings, 2017, , .	0.3	Ο
130	Ab Initio Investigation of Vibrational, Optical and Thermodynamics Properties of Yttrium Arsenide. Journal of Electronic Materials, 2017, 46, 5670-5676.	1.0	4
131	Structural, electronic, mechanical and quantum transport of ultrathin gold nanowire: A density functional approach. Superlattices and Microstructures, 2017, 106, 206-215.	1.4	9
132	Review: Enhancing efficiency of solar thermal engineering systems by thermophysical properties of a promising nanofluids. Renewable and Sustainable Energy Reviews, 2017, 77, 1343-1348.	8.2	19
133	Experimental and theoretical analysis of electronic and optical properties of MgWO4. Journal of Materials Science, 2017, 52, 4934-4943.	1.7	28
134	Spin-dependent electron transport in C and Ge doped BN monolayers. Physical Chemistry Chemical Physics, 2017, 19, 30370-30380.	1.3	7
135	Modulating the electronic and optical properties of monolayer arsenene phases by organic molecular doping. Nanotechnology, 2017, 28, 495202.	1.3	22
136	Metal-Mott insulator transition of SrMnO3 by fluorine doping. AIP Conference Proceedings, 2017, , .	0.3	1
137	Oxygen adsorption on palladium monolayer as a surface catalyst. Physics Letters, Section A: General, Atomic and Solid State Physics, 2017, 381, 3084-3088.	0.9	14
138	High performance material for hydrogen storage: Graphenelike Si2BN solid. International Journal of Hydrogen Energy, 2017, 42, 22942-22952.	3.8	50
139	Structural, electronic and ferroelectric properties of BaReO3. AIP Conference Proceedings, 2017, , .	0.3	2
140	Re-solution of xenon clusters in plutonium dioxide under the collision cascade impact: A molecular dynamics simulation. AIP Conference Proceedings, 2017, , .	0.3	1
141	Temperature-dependent thermal conductivity and viscosity of synthesized α-alumina nanofluids. Applied Nanoscience (Switzerland), 2017, 7, 803-813.	1.6	39
142	A simulation of the helium diffusion in uranium dioxide crystals: a comparison of the interaction potentials. Bulletin of the Karaganda University Physics Series, 2017, 87, 26-30.	0.1	3
143	Molecular Dynamics Simulation of Xenon Diffusion in UO2 Nanocrystals. , 2017, , .		0
144	Density functional Studies of structural, electronic and vibrational properties of palladium oxide. Solid State Communications, 2016, 245, 36-41.	0.9	13

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145	Ab-initio vibrational dynamics study of silver nanoclusters. AIP Conference Proceedings, 2016, , .	0.3	1
146	First-principles study of structural & electronic properties of pyramidal silicon nanowire. AlP Conference Proceedings, 2016, , .	0.3	3
147	Structural and opto-electronic properties of 2D AlSb monolayer. AIP Conference Proceedings, 2016, , .	0.3	2
148	First Principles Investigation of the Elastic, Optoelectronic and Thermal Properties of XRuSb: (XÂ=ÂV,) Tj ETQq0 C 2016, 45, 3479-3490.	0 rgBT /C 1.0	Overlock 10 T 46
149	Germanene: a new electronic gas sensing material. RSC Advances, 2016, 6, 102264-102271.	1.7	68
150	First step to investigate nature of electronic states and transport in flower-like MoS2: Combining experimental studies with computational calculations. Scientific Reports, 2016, 6, 32690.	1.6	20
151	Photodynamic response of a solution-processed organolead halide photodetector. RSC Advances, 2016, 6, 111942-111949.	1.7	4
152	Ab-initio approach to IrO2 polymorphs – properties at high pressures. AIP Conference Proceedings, 2016, , .	0.3	0
153	Antimonene: a monolayer material for ultraviolet optical nanodevices. Journal of Materials Chemistry C, 2016, 4, 6386-6390.	2.7	246
154	2D-HfS ₂ as an efficient photocatalyst for water splitting. Catalysis Science and Technology, 2016, 6, 6605-6614.	2.1	71
155	Indiene 2D monolayer: a new nanoelectronic material. RSC Advances, 2016, 6, 8006-8014.	1.7	45
156	Elasticity of DNA nanowires. Physics Letters, Section A: General, Atomic and Solid State Physics, 2016, 380, 207-210.	0.9	8
157	Temperature and Size Dependent Thermal Conductivity of Graphene Nanoribbons Description for Phonon Dispersion and Polarization. Advanced Science Letters, 2016, 22, 3916-3918.	0.2	2
158	Length, width and roughness dependent thermal conductivity of graphene nanoribbons. Chemical Physics Letters, 2015, 634, 16-19.	1.2	39
159	Size and edge roughness effects on thermal conductivity of pristine antimonene allotropes. Chemical Physics Letters, 2015, 641, 169-172.	1.2	60
160	Evidence of a graphene-like Sn-sheet on a Au(111) substrate: electronic structure and transport properties from first principles calculations. Physical Chemistry Chemical Physics, 2015, 17, 6705-6712.	1.3	33
161	Interaction of metallic clusters with biologically active curcumin molecules. Chemical Physics Letters, 2015, 636, 163-166.	1.2	0
162	Modulation of band gap by an applied electric field in silicene-based hetero-bilayers. Physical Chemistry Chemical Physics, 2015, 17, 11324-11328.	1.3	58

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163	Unique electron transport in ultrathin black phosphorene: Ab-initio study. Applied Surface Science, 2015, 356, 881-887.	3.1	33
164	Step energy and step interactions on the reconstructed GaAs(001) surface. Physical Review B, 2014, 90, .	1.1	7
165	Zeolite-Y entrapped bivalent transition metal complexes as hybrid nanocatalysts: density functional theory investigation and catalytic aspects. Green Chemistry Letters and Reviews, 2014, 7, 278-287.	2.1	36
166	Structural, electronic, optical and thermodynamic properties of cubic REGa3 (RE=Sc or Lu) compounds: Ab initio study. Journal of Alloys and Compounds, 2014, 597, 36-44.	2.8	57
167	Nature of low compressibility and anisotropic elasticity in YbB2. Journal of Alloys and Compounds, 2014, 597, 148-154.	2.8	3
168	First-principles studies of the superconductivity and vibrational properties of transition-metal nitrides TMN (TMÂ=ÂTi, V, and Cr). Materials Chemistry and Physics, 2014, 143, 503-513.	2.0	27
169	A comparative study of experimental and theoretical results of conformations of oxovanadium(IV) complexes with 4-acyl pyrazolone ligands using DFT method. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 128, 447-451.	2.0	5
170	Effect of Si doping on the electronic properties of BN monolayer. Nanoscale, 2014, 6, 5526-5531.	2.8	42
171	Unexpected features of the formation of Si and Ge nanocrystals during annealing of implanted SiO2 layers: Low frequency Raman spectroscopic characterization. Physica B: Condensed Matter, 2014, 432, 116-120.	1.3	1
172	Structural, electronic, and optical properties of orthorhombic and triclinic BiNbO4 determined via DFT calculations. Journal of Materials Science, 2014, 49, 7809-7818.	1.7	12
173	Lattice dynamics and thermodynamical study of yttrium monochalcogenides. Computational Materials Science, 2014, 92, 69-75.	1.4	9
174	First-principles structural, electronic and vibrational properties of zinc-blende zirconium carbide. Solid State Communications, 2013, 169, 32-36.	0.9	4
175	Electron–phonon interaction, superconductivity and thermal conductivity of palladium carbide using ab initio calculation. Computational Materials Science, 2013, 70, 196-200.	1.4	4
176	Optical and Vibrational Studies of Partially Edge-Terminated Vertically Aligned Nanocrystalline MoS2 Thin Films. Journal of Physical Chemistry C, 2013, 117, 26262-26268.	1.5	51
177	Electron tunneling characteristics of a cubic quantum dot, (PbS)32. Journal of Chemical Physics, 2013, 139, 244307.	1.2	13
178	First-Principles Investigation of Thermophysical Properties of Cubic ZrC Under High Pressure. International Journal of Thermophysics, 2013, 34, 2019-2026.	1.0	10
179	Dynamical stability of the lanthanum dihydride under high pressure: A density functional lattice dynamics approach. International Journal of Hydrogen Energy, 2013, 38, 4654-4663.	3.8	17
180	Structural, electronic and dynamical stability of heavy metal iron pernitride: a spin polarized first-principles study. European Physical Journal B, 2013, 86, 1.	0.6	9

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#	Article	lF	CITATIONS
181	A first principles lattice dynamics and Raman spectra of the ferroelastic rutile to CaCl ₂ phase transition in SnO ₂ at high pressure. Journal of Raman Spectroscopy, 2013, 44, 926-933.	1.2	40
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