List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Tunable and sizeable band gaps in strained SiC3/hBN vdW heterostructures: A potential replacement for graphene in future nanoelectronics. Computational Materials Science, 2021, 188, 110233.	3.0	8
2	Magnetic characterization, electronic structure and vibrational properties of (NH4)2ÂM(SO4)2·6H2O (M=Mn, Ni) crystals. Solid State Communications, 2021, 334-335, 114384.	1.9	3
3	Experimental and theoretical study of solvent effect in graphene oxide. Journal of Molecular Liquids, 2021, 342, 117429.	4.9	3
4	Probing ring contraction and decarboxylation of Rhodizonate and the influence of Cu (II) using surfaceâ€enhanced Raman Scattering. Journal of Raman Spectroscopy, 2020, 51, 256-263.	2.5	3
5	Graphene oxide in water: a systematic computational experimental study. Graphene Technology, 2020, 5128 Electronic properties of substitutional impurities in graphenelike <mml:math< td=""><td>1.9</td><td>3</td></mml:math<>	1.9	3
6	xmlns:mml="http://www.w3.org/1998/Math/MathML"> <mml:mrow><mml:msub><mml:mi mathvariant="normal">C<mml:mn>2</mml:mn></mml:mi </mml:msub><mml:mi mathvariant="normal">N</mml:mi </mml:mrow> , <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>t</mml:mi><g</mml:mrow></mml:math 	3.2 cmml:mte	11 ext>â^'
7	mathvariant="normal">C <mml:mn>3</mml:mn> <mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:msub><mml:m< td=""><td>1.5</td><td>11</td></mml:m<></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub></mml:msub>	1.5	11
8	Traps for pinning and scattering of antiferromagnetic skyrmions via magnetic properties engineering. Journal of Applied Physics, 2020, 127, .	2.5	11
9	Suppression of the skyrmion Hall effect in planar nanomagnets by the magnetic properties engineering: Skyrmion transport on nanotracks with magnetic strips. Journal of Magnetism and Magnetic Materials, 2020, 504, 166655.	2.3	21
10	Exotic impurity-induced states in single-layer h -BN: The role of sublattice structure and intervalley interactions. Physical Review B, 2019, 100, .	3.2	6
11	Tunable optoelectronic properties in h-BP/h-BAs bilayers: The effect of an external electrical field. Applied Surface Science, 2019, 493, 308-319.	6.1	23
12	Investigation of domain wall pinning by square anti-notches and its application in three terminals MRAM. Applied Physics Letters, 2019, 114, .	3.3	11
13	Non-trivial band gaps and charge transfer in Janus-like functionalized bilayer boron arsenide. Computational Materials Science, 2019, 170, 109186.	3.0	4
14	Theoretical characterization of hexagonal 2D Be ₃ N ₂ monolayers. New Journal of Chemistry, 2019, 43, 2933-2941.	2.8	20
15	Coupled cluster investigation of the interaction of beryllium, magnesium, and calcium with pyridine: Implications for the adsorption on nitrogen-doped graphene. Computational and Theoretical Chemistry, 2019, 1150, 57-62.	2.5	12
16	Monolayer boronâ€arsenide as a perfect anode for alkaliâ€based batteries with large storage capacities and fast mobilities. International Journal of Quantum Chemistry, 2019, 119, e25975.	2.0	15
17	High-Frequency Oscillator Based on Nano Graphene. Brazilian Journal of Physics, 2019, 49, 488-493.	1.4	2
18	Electronic properties and vibrational spectra of (NH4)2M″(SO4)2·6H2O (Mâ€=â€Ni, Cu) Tutton's salt: DFT and experimental study. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 218, 281-292	3.9	16

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19	Modeling a Hypothetical Zombie Outbreak Can Save Us from Real-World Monsters. Mathematical Intelligencer, 2019, 41, 72-79.	0.2	0
20	DFT calculations on the structural and electronic properties of vacancy effects in the silicon nanowires. European Physical Journal B, 2019, 92, 1.	1.5	2
21	Building traps for skyrmions by the incorporation of magnetic defects into nanomagnets: Pinning and scattering traps by magnetic properties engineering. Journal of Magnetism and Magnetic Materials, 2019, 480, 171-185.	2.3	24
22	Theoretical investigation of various aspects of two dimensional holey boroxine, B ₃ O ₃ . RSC Advances, 2019, 9, 37526-37536.	3.6	21
23	Adsorption and diffusion of alkaliâ€atoms (Li, Na, and K) on BeN dual doped graphene. International Journal of Quantum Chemistry, 2019, 119, e25900.	2.0	16
24	Hexagonal boron phosphide as a potential anode nominee for alkali-based batteries: A multi-flavor DFT study. Applied Surface Science, 2019, 471, 134-141.	6.1	49
25	Exploring the effect of substitutional doping on the electronic properties of graphene oxide. Journal of Materials Science, 2018, 53, 7516-7526.	3.7	9
26	Depinning of the transverse domain wall trapped at magnetic impurities patterned in planar nanowires: Control of the wall motion using low-intensity and short-duration current pulses. Journal of Magnetism and Magnetic Materials, 2018, 451, 639-646.	2.3	10
27	Theoretical evaluation of chemical substitutions along the main chain of poly(3â€hexylthienyleneâ€vinylene) for solar cell applications. Polymer International, 2018, 67, 197-203.	3.1	2
28	Adsorption of Sodium on Doped Graphene: A vdW-DF Study. Current Graphene Science, 2018, 2, 35-44.	0.5	7
29	Unusual Enhancement of the Adsorption Energies of Sodium and Potassium in Sulfurâ^'Nitrogen and Siliconâ ''Boron Codoped Graphene. ACS Omega, 2018, 3, 15821-15828.	3.5	15
30	Hydrogenation and Fluorination of 2D Boron Phosphide and Boron Arsenide: A Density Functional Theory Investigation. ACS Omega, 2018, 3, 16416-16423.	3.5	38
31	Effects of Mechanical Stretching on the Properties of Conjugated Polymers: Case Study for MEHâ€PPV and P3HT Oligomers. Journal of Polymer Science, Part B: Polymer Physics, 2018, 56, 1413-1426.	2.1	11
32	Modeling surface energy in porous metallic nanostructures. European Physical Journal B, 2018, 91, 1.	1.5	2
33	The role of sulfate in the chemical synthesis of graphene oxide. Materials Chemistry and Physics, 2018, 215, 203-210.	4.0	12
34	First-principles study of dual-doped graphene: towards promising anode materials for Li/Na-ion batteries. New Journal of Chemistry, 2018, 42, 10842-10851.	2.8	44
35	Coupled cluster and density functional investigation of the neutral sodium-benzene and potassium-benzene complexes. Chemical Physics Letters, 2018, 706, 343-347.	2.6	11
36	Tripleâ€Doped Monolayer Graphene with Boron, Nitrogen, Aluminum, Silicon, Phosphorus, and Sulfur. ChemPhysChem, 2017, 18, 1864-1873.	2.1	49

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37	Reduced graphene oxide prepared at low temperature thermal treatment as transparent conductors for organic electronic applications. Organic Electronics, 2017, 49, 165-173.	2.6	31
38	Rectangular and hexagonal doping of graphene with B, N, and O: a DFT study. RSC Advances, 2017, 7, 16064-16068.	3.6	26
39	Study on the coherence degree of magnetization reversal in Permalloy single-domain nano-ellipses. Journal of Magnetism and Magnetic Materials, 2017, 426, 396-404.	2.3	2
40	Beryllium doped graphene as an efficient anode material for lithium-ion batteries with significantly huge capacity: A DFT study. Applied Materials Today, 2017, 9, 333-340.	4.3	84
41	Structural, electronic, and magnetic properties of non-planar doping of BeO in graphene: a DFT study. New Journal of Chemistry, 2017, 41, 10780-10789.	2.8	7
42	Decreasing the size limit for a stable magnetic vortex in modified permalloy nanodiscs. Journal of Magnetism and Magnetic Materials, 2017, 443, 252-260.	2.3	5
43	Triple-Doped Monolayer Graphene with Boron, Nitrogen, Aluminum, Silicon, Phosphorus, and Sulfur. ChemPhysChem, 2017, 18, 1854-1854.	2.1	3
44	Vibrational spectroscopy for milk fat quantification: line shape analysis of the Raman and infrared spectra. Journal of Raman Spectroscopy, 2016, 47, 692-698.	2.5	19
45	Enhancement of nonlinear optical properties of graphene oxide-based structures: push–pull models. RSC Advances, 2016, 6, 94437-94450.	3.6	15
46	Structural and vibrational study of graphene oxide via coronene based models: theoretical and experimental results. Materials Research Express, 2016, 3, 055020.	1.6	18
47	Magnetization reversal of the transverse domain wall confined between two clusters of magnetic impurities in a ferromagnetic planar nanowire. Journal of Magnetism and Magnetic Materials, 2016, 419, 37-42.	2.3	10
48	Theoretical study of nonlinear optical properties of cobalt bis (dicarbollide) derivatives: the effect of substituents. Theoretical Chemistry Accounts, 2015, 134, 1.	1.4	4
49	Position of the transverse domain wall controlled by magnetic impurities in rectangular magnetic nanowires. Journal of Applied Physics, 2014, 115, .	2.5	7
50	Substituent effects on molecular properties of dicarba-closo-dodecarborane derivatives. Journal of Molecular Modeling, 2014, 20, 2275.	1.8	5
51	Dynamics of the vortex core in magnetic nanodisks with a ring of magnetic impurities. Applied Physics Letters, 2012, 101, .	3.3	24
52	The influence of magnetic impurities in the vortex core dynamics in magnetic nano-disks. Journal of Magnetism and Magnetic Materials, 2012, 324, 3083-3086.	2.3	15
53	van der Waals potential barrier for cobaltocene encapsulation into single-walled carbon nanotubes: classical molecular dynamics andab initiostudy. Molecular Simulation, 2011, 37, 746-751.	2.0	1
54	The First Molecular Wheel: A Theoretical Investigation. Materials Research Society Symposia Proceedings, 2011, 1286, 44.	0.1	0

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55	Adsorption configuration effects on the surface diffusion of large organic molecules: The case of Violet Lander. Journal of Chemical Physics, 2010, 133, 224702.	3.0	3
56	Temperature effects on the atomic arrangement and conductance of atomic-size gold nanowires generated by mechanical stretching. Nanotechnology, 2010, 21, 485702.	2.6	18
57	Observation of the smallest metal nanotube with a square cross-section. Nature Nanotechnology, 2009, 4, 149-152.	31.5	50
58	New Insights on the Growth of Anisotropic Nanoparticles from Total Energy Calculations. Journal of Physical Chemistry C, 2009, 113, 11976-11979.	3.1	4
59	Defects in Graphene-Based Twisted Nanoribbons: Structural, Electronic, and Optical Properties. Langmuir, 2009, 25, 4751-4759.	3.5	26
60	C ₆₀ -derived nanobaskets: stability, vibrational signatures, and molecular trapping. Nanotechnology, 2009, 20, 395701.	2.6	8
61	Designing conducting polymers using bioinspired ant algorithms. Chemical Physics Letters, 2008, 453, 290-295.	2.6	12
62	Möbius and twisted graphene nanoribbons: Stability, geometry, and electronic properties. Journal of Chemical Physics, 2008, 128, 164719.	3.0	54
63	Size Limit of Defect Formation in Pyramidal Pt Nanocontacts. Physical Review Letters, 2007, 99, 255501.	7.8	16
64	Experimental realization of suspended atomic chains composed of different atomic species. Nature Nanotechnology, 2006, 1, 182-185.	31.5	95
65	Computer simulations of gold nanowire formation: the role of outlayer atoms. Applied Physics A: Materials Science and Processing, 2005, 81, 1527-1531.	2.3	31
66	Prediction of Ordered Phases of Encapsulated C60, C70, and C78Inside Carbon Nanotubes. Nano Letters, 2005, 5, 349-355.	9.1	85
67	Lock-and-key effect in the surface diffusion of large organic molecules probed by STM. Nature Materials, 2004, 3, 779-782.	27.5	116
68	On the Structural and Stability Features of Linear Atomic Suspended Chains Formed from Gold Nanowires Stretching. Nano Letters, 2004, 4, 1187-1191.	9.1	106
69	Indication of Unusual Pentagonal Structures in Atomic-Size Cu Nanowires. Physical Review Letters, 2004, 93, 126103.	7.8	105