

Farzaneh Shayeganfar

List of Publications by Year in descending order

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35
papers

533
citations

687363

13
h-index

677142

22
g-index

35
all docs

35
docs citations

35
times ranked

647
citing authors

#	ARTICLE	IF	CITATIONS
1	Oxygen- and Lithium-Doped Hybrid Boron-Nitride/Carbon Networks for Hydrogen Storage. Langmuir, 2016, 32, 13313-13321.	3.5	59
2	A comprehensive review on planar boron nitride nanomaterials: From 2D nanosheets towards 0D quantum dots. Progress in Materials Science, 2022, 124, 100884.	32.8	59
3	Electronic Properties of Self-Assembled Trimesic Acid Monolayer on Graphene. Langmuir, 2014, 30, 9707-9716.	3.5	56
4	Surface/edge functionalized boron nitride quantum dots: Spectroscopic fingerprint of bandgap modification by chemical functionalization. Ceramics International, 2020, 46, 978-985.	4.8	31
5	Phase transition and mechanical properties of cesium bismuth silver halide double perovskites ($\text{Cs}_2\text{AgBiX}_6$, X = Cl, Br, I): a DFT approach. Physical Chemistry Chemical Physics, 2020, 22, 5959-5968.	2.8	30
6	Electronic and pseudomagnetic properties of hybrid carbon/boron-nitride nanomaterials via ab-initio calculations and elasticity theory. Carbon, 2016, 99, 523-532.	10.3	25
7	Energy Gap Tuning of Graphene Layers with Single Molecular F_2 Adsorption. Journal of Physical Chemistry C, 2015, 119, 12681-12689.	3.1	24
8	Electro- and opto-mutable properties of MgO nanoclusters adsorbed on mono- and double-layer graphene. Nanoscale, 2017, 9, 4205-4218.	5.6	24
9	Effects of functionalization and side defects on single-photon emission in boron nitride quantum dots. Physical Review B, 2017, 96, .	3.2	23
10	First-Principles Study of Water Nanotubes Captured Inside Carbon/Boron Nitride Nanotubes. Langmuir, 2018, 34, 11176-11187.	3.5	23
11	Optical absorption and electronic spectra of chlorophylls a and b. RSC Advances, 2016, 6, 109778-109785.	3.6	21
12	Electro-Optical Properties of Monolayer and Bilayer Pentagonal BN: First Principles Study. Nanomaterials, 2020, 10, 440.	4.1	19
13	Methane molecule over the defected and rippled graphene sheet. Solid State Communications, 2012, 152, 1493-1496.	1.9	17
14	Controlled nucleation and growth of CdS nanoparticles by turbulent dispersion. Physical Review E, 2010, 81, 026304.	2.1	13
15	Deep Learning Method to Accelerate Discovery of Hybrid Polymer-Graphene Composites. Scientific Reports, 2021, 11, 15111.	3.3	13
16	Tunable Band Gap in Bilayer Graphene by Trimesic Acid Molecular Doping. Journal of Physical Chemistry C, 2014, 118, 27157-27163.	3.1	12
17	Hydrogenated $\dot{\Gamma}$ -graphene as an ultraviolet optomechanical sensor. RSC Advances, 2020, 10, 26197-26211.	3.6	12
18	Tuning the Electronic Properties of a Boron-Doped Si(111) Surface by Self-Assembling of Trimesic Acid. Journal of Physical Chemistry C, 2015, 119, 15742-15748.	3.1	10

#	ARTICLE	IF	CITATIONS
19	Exciton-plasmon polariton coupling and hot carrier generation in two-dimensional SiB semiconductors: a first-principles study. <i>Nanophotonics</i> , 2020, 9, 337-349.	6.0	10
20	Flexoelectric Effects in Corrugated Boron Nitride Nanoribbons. <i>Journal of Electronic Materials</i> , 2019, 48, 4515-4523.	2.2	7
21	Fundamental mechanisms of hexagonal boron nitride sensing of dopamine, tryptophan, ascorbic acid, and uric acid by first-principles study. <i>Journal of Molecular Modeling</i> , 2022, 28, .	1.8	6
22	Strain engineering of electronic properties and anomalous valley hall conductivity of transition metal dichalcogenide nanoribbons. <i>Scientific Reports</i> , 2022, 12, .	3.3	6
23	Levels of complexity in turbulent time series for weakly and high Reynolds number. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2012, 391, 3151-3158.	2.6	5
24	Van der Waals energy surface of a carbon nanotube sheet. <i>Solid State Communications</i> , 2012, 152, 225-230.	1.9	4
25	Columnar organization of stack-assembled trimesic acid on graphene. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 435305.	1.8	4
26	The Gadonanotubes as High-Performance MRI Contrast Agents: The Unappreciated Role of the Carbon Nanotube Component at Low Magnetic Fields. <i>ECS Journal of Solid State Science and Technology</i> , 2017, 6, M3173-M3180.	1.8	4
27	First-Principles Study of the Stabilization and Mechanical Properties of Rare-Earth Ferritic Perovskites (RFeO ₃ , R = La, Eu, Gd). <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4008.	2.5	4
28	Discrimination of Sol and Gel states in an aging clay suspension. <i>Chemical Physics</i> , 2013, 423, 167-172.	1.9	3
29	Electro/mechanical mutable properties of black phosphorene by electric field and strain engineering. <i>Materials Research Express</i> , 2018, 5, 066307.	1.6	3
30	Boron nitride nanochannels encapsulating a water/heavy water layer for energy applications. <i>RSC Advances</i> , 2019, 9, 5901-5907.	3.6	3
31	Interfacial properties of water/heavy water layer encapsulate in bilayer graphene nanochannel and nanocapacitor. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 11964-11975.	2.2	2
32	Molecular dynamics simulation of formation and growth of CdS nanoparticles. <i>Molecular Simulation</i> , 2014, 40, 361-369.	2.0	1
33	(Invited) Electronic Properties of Self-Assembled Trimesic Acid Monolayer on Graphene Layers. <i>ECS Transactions</i> , 2015, 69, 365-370.	0.5	0
34	Electronic Properties of Adsorption of Trimesic Acid Monomer on Graphene. <i>Journal of Physics: Conference Series</i> , 2015, 640, 012028.	0.4	0
35	Magneto-optical Kerr effect in surface engineered 2D hexagonal boron nitride. <i>Scientific Reports</i> , 2022, 12, .	3.3	0