# 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 | 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 |
| 2 | Fundamental mechanisms of hexagonal boron nitride sensing of dopamine, tryptophan, ascorbic acid, and uric acid by first-principles study. Journal of Molecular Modeling, 2022, 28, . | 1.8 | 6 |
| 3 | Magneto-optical Kerr effect in surface engineered 2D hexagonal boron nitride. Scientific Reports, 2022, 12, . | 3.3 | 0 |
| 4 | Strain engineering of electronic properties and anomalous valley hall conductivity of transition metal dichalcogenide nanoribbons. Scientific Reports, 2022, 12, . | 3.3 | 6 |
| 5 | Deep Learning Method to Accelerate Discovery of Hybrid Polymer-Graphene Composites. Scientific Reports, 2021, 11, 15111. | 3.3 | 13 |
| 6 | Surface/edge functionalized boron nitride quantum dots: Spectroscopic fingerprint of bandgap modification by chemical functionalization. Ceramics International, 2020, 46, 978-985. | 4.8 | 31 |
| 7 | Hydrogenated Î·-graphene as an ultraviolet optomechanical sensor. RSC Advances, 2020, 10, 26197-26211. | 3.6 | 12 |
| 8 | Electro-Optical Properties of Monolayer and Bilayer Pentagonal BN: First Principles Study. Nanomaterials, 2020, 10, 440. | 4.1 | 19 |
| 9 | First-Principles Study of the Stabilization and Mechanical Properties of Rare-Earth Ferritic Perovskites (RFeO3, R = La, Eu, Gd). Applied Sciences (Switzerland), 2020, 10, 4008. | 2.5 | 4 |
| 10 | Phase transition and mechanical properties of cesium bismuth silver halide double perovskites (Cs<sub>2</sub>AgBiX<sub>6</sub>, X = Cl, Br, I): a DFT approach. Physical Chemistry Chemical Physics, 2020, 22, 5959-5968. | 2.8 | 30 |
| 11 | Exciton-plasmon polariton coupling and hot carrier generation in two-dimensional SiB semiconductors: a first-principles study. Nanophotonics, 2020, 9, 337-349. | 6.0 | 10 |
| 12 | Interfacial properties of water/heavy water layer encapsulate in bilayer graphene nanochannel and nanocapacitor. Journal of Materials Science: Materials in Electronics, 2019, 30, 11964-11975. | 2.2 | 2 |
| 13 | Flexoelectric Effects in Corrugated Boron Nitride Nanoribbons. Journal of Electronic Materials, 2019, 48, 4515-4523. | 2.2 | 7 |
| 14 | Boron nitride nanochannels encapsulating a water/heavy water layer for energy applications. RSC Advances, 2019, 9, 5901-5907. | 3.6 | 3 |
| 15 | Electro/mechanical mutable properties of black phosphorene by electric field and strain engineering. Materials Research Express, 2018, 5, 066307. | 1.6 | 3 |
| 16 | First-Principles Study of Water Nanotubes Captured Inside Carbon/Boron Nitride Nanotubes. Langmuir, 2018, 34, 11176-11187. | 3.5 | 23 |
| 17 | Electro- and opto-mutable properties of MgO nanoclusters adsorbed on mono- and double-layer graphene. Nanoscale, 2017, 9, 4205-4218. | 5.6 | 24 |
| 18 | Effects of functionalization and side defects on single-photon emission in boron nitride quantum dots. Physical Review B, 2017, 96, . | 3.2 | 23 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | The Gadonanotubes as High-Performance MRI Contrast Agents: The Unappreciated Role of the Carbon Nanotube Component at Low Magnetic Fields. ECS Journal of Solid State Science and Technology, 2017, 6, M3173-M3180. | 1.8 | 4 |
| 20 | Optical absorption and electronic spectra of chlorophylls a and b. RSC Advances, 2016, 6, 109778-109785. | 3.6 | 21 |
| 21 | Oxygen- and Lithium-Doped Hybrid Boron-Nitride/Carbon Networks for Hydrogen Storage. Langmuir, 2016, 32, 13313-13321. | 3.5 | 59 |
| 22 | 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 |
| 23 | (Invited) Electronic Properties of Self-Assembled Trimesic Acid Monolayer on Graphene Layers. ECS Transactions, 2015, 69, 365-370. | 0.5 | 0 |
| 24 | Electronic Properties of Adsorption of Trimesic Acid Monomer on Graphene. Journal of Physics: Conference Series, 2015, 640, 012028. | 0.4 | 0 |
| 25 | Energy Gap Tuning of Graphene Layers with Single Molecular F<sub>2</sub> Adsorption. Journal of Physical Chemistry C, 2015, 119, 12681-12689. | 3.1 | 24 |
| 26 | 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 |
| 27 | Columnar organization of stack-assembled trimesic acid on graphene. Journal of Physics Condensed Matter, 2014, 26, 435305. | 1.8 | 4 |
| 28 | Tunable Band Gap in Bilayer Graphene by Trimesic Acid Molecular Doping. Journal of Physical Chemistry C, 2014, 118, 27157-27163. | 3.1 | 12 |
| 29 | Molecular dynamics simulation of formation and growth of CdS nanoparticles. Molecular Simulation, 2014, 40, 361-369. | 2.0 | 1 |
| 30 | Electronic Properties of Self-Assembled Trimesic Acid Monolayer on Graphene. Langmuir, 2014, 30, 9707-9716. | 3.5 | 56 |
| 31 | Discrimination of Sol and Gel states in an aging clay suspension. Chemical Physics, 2013, 423, 167-172. | 1.9 | 3 |
| 32 | Methane molecule over the defected and rippled graphene sheet. Solid State Communications, 2012, 152, 1493-1496. | 1.9 | 17 |
| 33 | Van der Waals energy surface of a carbon nanotube sheet. Solid State Communications, 2012, 152, 225-230. | 1.9 | 4 |
| 34 | Levels of complexity in turbulent time series for weakly and high Reynolds number. Physica A: Statistical Mechanics and Its Applications, 2012, 391, 3151-3158. | 2.6 | 5 |
| 35 | Controlled nucleation and growth of CdS nanoparticles by turbulent dispersion. Physical Review E, 2010, 81, 026304. | 2.1 | 13 |