# Hong Seok Kang

List of Publications by Year
in descending order

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Version: 2024-02-01

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|---|---|---|---|
| 52 papers | 2,406 citations | 172386 29 h-index | 197736 49 g-index |
| 52 all docs | 52 docs citations | 52 times ranked | 4369 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Polytypic Phase Transition of Nb<sub>1â€“x</sub>V<sub>x</sub>Se<sub>2</sub> via Colloidal Synthesis and Their Catalytic Activity toward Hydrogen Evolution Reaction. ACS Nano, 2022, 16, 4278-4288. | 7.3 | 18 |
| 2 | Polymorphic Ga<sub>2</sub>S<sub>3</sub> nanowires: phase-controlled growth and crystal structure calculations. Nanoscale Advances, 2022, 4, 3218-3225. | 2.2 | 1 |
| 3 | Concurrent Vacancy and Adatom Defects of Mo<sub>1â€“x</sub>Nb<sub>x</sub>Se<sub>2</sub> Alloy Nanosheets Enhance Electrochemical Performance of Hydrogen Evolution Reaction. ACS Nano, 2021, 15, 5467-5477. | 7.3 | 51 |
| 4 | Multiferroicity of Non-Janus MXY (X = Se/S, Y = Te/Se) Monolayers with Giant In-Plane Ferroelectricity. Journal of Physical Chemistry C, 2021, 125, 7458-7465. | 1.5 | 4 |
| 5 | Phase-Transition Mo<sub>1â€“x</sub>V<sub>x</sub>Se<sub>2</sub> Alloy Nanosheets with Rich Vâ€“Se Vacancies and Their Enhanced Catalytic Performance of Hydrogen Evolution Reaction. ACS Nano, 2021, 15, 14672-14682. | 7.3 | 31 |
| 6 | Highly Thermally Stable and Transparent WO<sub>3</sub>â€“SiO<sub>2</sub> Gasochromic Films Obtained by an Automated Printing Method. ACS Sustainable Chemistry and Engineering, 2021, 9, 17319-17329. | 3.2 | 9 |
| 7 | Non-Janus WSSe/MoSSe Heterobilayer and Its Photocatalytic Band Offset. Journal of Physical Chemistry C, 2020, 124, 3812-3819. | 1.5 | 11 |
| 8 | Anisotropic alloying of Re<sub>1â^’x</sub>Mo<sub>x</sub>S<sub>2</sub> nanosheets to boost the electrochemical hydrogen evolution reaction. Journal of Materials Chemistry A, 2020, 8, 25131-25141. | 5.2 | 21 |
| 9 | Phase Evolution of Re<sub>1â€“x</sub>Mo<sub>x</sub>Se<sub>2</sub> Alloy Nanosheets and Their Enhanced Catalytic Activity toward Hydrogen Evolution Reaction. ACS Nano, 2020, 14, 11995-12005. | 7.3 | 59 |
| 10 | Ruthenium Nanoparticles on CobaltâĐoped 1Tâ€² Phase MoS<sub>2</sub> Nanosheets for Overall Water Splitting. Small, 2020, 16, e2000081. | 5.2 | 82 |
| 11 | Se-Rich MoSe<sub>2</sub> Nanosheets and Their Superior Electrocatalytic Performance for Hydrogen Evolution Reaction. ACS Nano, 2020, 14, 6295-6304. | 7.3 | 125 |
| 12 | Electronegativity, phase transition, and ferroelectricity of TeSe2 few-layers. Journal of Physics Condensed Matter, 2020, 32, 045301. | 0.7 | 2 |
| 13 | Two-dimensional MoS<sub>2</sub>/Fe-phthalocyanine hybrid nanostructures as excellent electrocatalysts for hydrogen evolution and oxygen reduction reactions. Nanoscale, 2019, 11, 14266-14275. | 2.8 | 32 |
| 14 | Two-dimensional MoS<sub>2</sub>â€“melamine hybrid nanostructures for enhanced catalytic hydrogen evolution reaction. Journal of Materials Chemistry A, 2019, 7, 22571-22578. | 5.2 | 14 |
| 15 | Orientation-specific switching of inelastic electron tunneling in an oxygenâ€“pyridine complex adsorbed onto an Ag(110) surface. Journal of Chemical Physics, 2019, 151, 114703. | 1.2 | 0 |
| 16 | Two dimensional MoS2 meets porphyrins via intercalation to enhance the electrocatalytic activity toward hydrogen evolution. Nanoscale, 2019, 11, 3780-3785. | 2.8 | 21 |
| 17 | Intercalated complexes of 1Tâ€²-MoS<sub>2</sub> nanosheets with alkylated phenylenediamines as excellent catalysts for electrochemical hydrogen evolution. Journal of Materials Chemistry A, 2019, 7, 2334-2343. | 5.2 | 41 |
| 18 | Thickness-dependent bandgap and electrical properties of GeP nanosheets. Journal of Materials Chemistry A, 2019, 7, 16526-16532. | 5.2 | 45 |

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|---|---|---|---|
| 19 | Intercalation of cobaltocene into WS<sub>2</sub> nanosheets for enhanced catalytic hydrogen evolution reaction. Journal of Materials Chemistry A, 2019, 7, 8101-8106. | 5.2 | 26 |
| 20 | Selective electrochemical reduction of carbon dioxide to formic acid using indiumâ€“zinc bimetallic nanocrystals. Journal of Materials Chemistry A, 2019, 7, 22879-22883. | 5.2 | 39 |
| 21 | Stable methylammonium-intercalated 1Tâ€²-MoS<sub>2</sub> for efficient electrocatalytic hydrogen evolution. Journal of Materials Chemistry A, 2018, 6, 5613-5617. | 5.2 | 38 |
| 22 | Two-dimensional GeAs with a visible range band gap. Journal of Materials Chemistry A, 2018, 6, 9089-9098. | 5.2 | 55 |
| 23 | Arsenic for high-capacity lithium- and sodium-ion batteries. Nanoscale, 2018, 10, 7047-7057. | 2.8 | 37 |
| 24 | Two-Dimensional WS<sub>2</sub>@Nitrogen-Doped Graphite for High-Performance Lithium Ion Batteries: Experiments and Molecular Dynamics Simulations. ACS Applied Materials & Interfaces, 2018, 10, 37928-37936. | 4.0 | 28 |
| 25 | Intercalation of aromatic amine for the 2Hâ€“1Tâ€² phase transition of MoS<sub>2</sub> by experiments and calculations. Nanoscale, 2018, 10, 11349-11356. | 2.8 | 54 |
| 26 | Nitrogen-rich 1Tâ€²-MoS<sub>2</sub> layered nanostructures using alkyl amines for high catalytic performance toward hydrogen evolution. Nanoscale, 2018, 10, 14726-14735. | 2.8 | 39 |
| 27 | Phase polymorphism and electronic structures of TeSe<sub>2</sub>. Journal of Materials Chemistry C, 2018, 6, 10218-10225. | 2.7 | 12 |
| 28 | Electronic structure and photocatalytic band offset of few-layer GeP<sub>2</sub>. Journal of Materials Chemistry A, 2017, 5, 22146-22155. | 5.2 | 68 |
| 29 | Partially planar BP<sub>3</sub>with high electron mobility as a phosphorene analog. Journal of Materials Chemistry C, 2017, 5, 11267-11274. | 2.7 | 37 |
| 30 | Photoluminescence and Photocurrents of GaS<sub>1â€“x</sub>Se<sub>x</sub> Nanobelts. Chemistry of Materials, 2016, 28, 5811-5820. | 3.2 | 28 |
| 31 | Electronic Structures and Li-Diffusion Properties of Group IVâ€“V Layered Materials: Hexagonal Germanium Phosphide and Germanium Arsenide. Journal of Physical Chemistry C, 2016, 120, 23842-23850. | 1.5 | 41 |
| 32 | Electronic structure of the germanium phosphide monolayer and Li-diffusion in its bilayer. Physical Chemistry Chemical Physics, 2016, 18, 32458-32465. | 1.3 | 32 |
| 33 | Phase Segregation in the Mixed Alkyl Thiol Selfâ€assembled Monolayers on a Gold Surface at a High Incubation Temperature in a Sealed Container. Bulletin of the Korean Chemical Society, 2015, 36, 2710-2715. | 1.0 | 6 |
| 34 | Stability and electronic structures of triazine-based carbon nitride nanotubes. RSC Advances, 2015, 5, 10892-10898. | 1.7 | 11 |
| 35 | Electronic Structure and Carrier Mobility of Two-Dimensional Î± Arsenic Phosphide. Journal of Physical Chemistry C, 2015, 119, 20210-20216. | 1.5 | 65 |
| 36 | Reversible Halide Exchange Reaction of Organometal Trihalide Perovskite Colloidal Nanocrystals for Full-Range Band Gap Tuning. Nano Letters, 2015, 15, 5191-5199. | 4.5 | 432 |

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|---|---|---|---|
| 37 | Red-to-Ultraviolet Emission Tuning of Two-Dimensional Gallium Sulfide/Selenide. ACS Nano, 2015, 9, 9585-9593. | 7.3 | 163 |
| 38 | Mechanical and Electronic Properties of Ï€-Conjugated Metal Bis(dithiolene) Complex Sheets. Chemistry of Materials, 2014, 26, 2967-2974. | 3.2 | 30 |
| 39 | Dual-channel anchorable organic dyes with well-defined structures for highly efficient dye-sensitized solar cells. Journal of Materials Chemistry A, 2013, 1, 9947. | 5.2 | 48 |
| 40 | Charge-Selective Surface-Enhanced Raman Scattering Using Silver and Gold Nanoparticles Deposited on Siliconâ€“Carbon Coreâ€“Shell Nanowires. ACS Nano, 2012, 6, 2459-2470. | 7.3 | 42 |
| 41 | Density Functional Theory Study of O<sub>2</sub> and NO Adsorption on Heteroatom-Doped Graphenes Including the van der Waals Interaction. Journal of Physical Chemistry C, 2011, 115, 10971-10978. | 1.5 | 34 |
| 42 | Selective Nitrogen-Doping Structure of Nanosize Graphitic Layers. Journal of Physical Chemistry C, 2011, 115, 3737-3744. | 1.5 | 52 |
| 43 | Nitrogen-Doped Graphitic Layers Deposited on Silicon Nanowires for Efficient Lithium-Ion Battery Anodes. Journal of Physical Chemistry C, 2011, 115, 9451-9457. | 1.5 | 131 |
| 44 | The effect of doping on the energetics and quantum conductance in graphene nanoribbons with a metallocene adsorbate. Journal of Chemical Physics, 2011, 135, 124708. | 1.2 | 13 |
| 45 | Role of molecular orientation in vibration, hopping, and electronic properties of single pyridine molecules adsorbed on Ag(110) surface: A combined STM and DFT study. Surface Science, 2010, 604, 258-264. | 0.8 | 22 |
| 46 | Novel Amphiphilic Ruthenium Sensitizer with Hydrophobic Thiophene or Thieno(3,2-b)thiophene-Substituted 2,2â€²-Dipyridylamine Ligands for Effective Nanocrystalline Dye Sensitized Solar Cells. Chemistry of Materials, 2009, 21, 5719-5726. | 3.2 | 51 |
| 47 | Electronic Structure of Si-Doped BN Nanotubes Using X-ray Photoelectron Spectroscopy and First-Principles Calculation. Chemistry of Materials, 2009, 21, 136-143. | 3.2 | 56 |
| 48 | Molecular engineering of hybrid sensitizers incorporating an organic antenna into ruthenium complex and their application in solar cells. New Journal of Chemistry, 2008, 32, 2233. | 1.4 | 39 |
| 49 | First Principles Study of NO and NNO Chemisorption on Silicon Carbide Nanotubes and Other Nanotubes. Journal of Chemical Theory and Computation, 2008, 4, 1690-1697. | 2.3 | 70 |
| 50 | Binding characteristics of pyridine on Ag(110). Journal of Chemical Physics, 2008, 128, 134707. | 1.2 | 16 |
| 51 | First-Principles Study of the Oxygenation of Carbon Nanotubes and Boron Nitride Nanotubes. Chemistry of Materials, 2007, 19, 3767-3772. | 3.2 | 11 |
| 52 | A theoretical study of fullereneâ€“ferrocene hybrids. Journal of Computational Chemistry, 2007, 28, 594-600. | 1.5 | 13 |