

Byung Hoon Kim

List of Publications by Year in descending order

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48
papers

1,467
citations

394421

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315739

38
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48
all docs

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docs citations

48
times ranked

2963
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Carbonization of a stable β -sheet-rich silk protein into a pseudographitic pyroprotein. <i>Nature Communications</i> , 2015, 6, 7145. | 12.8 | 192 |
| 2 | One-step hydrothermal synthesis of graphene decorated V ₂ O ₅ nanobelts for enhanced electrochemical energy storage. <i>Scientific Reports</i> , 2015, 5, 8151. | 3.3 | 170 |
| 3 | Ultrasensitive and Highly Selective Graphene-Based Single Yarn for Use in Wearable Gas Sensor. <i>Scientific Reports</i> , 2015, 5, 10904. | 3.3 | 142 |
| 4 | Sodium-Ion Storage in Pyroprotein-Based Carbon Nanoplates. <i>Advanced Materials</i> , 2015, 27, 6914-6921. | 21.0 | 120 |
| 5 | Agent-free synthesis of graphene oxide/transition metal oxide composites and its application for hydrogen storage. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 7594-7599. | 7.1 | 88 |
| 6 | Thermally modulated multilayered graphene oxide for hydrogen storage. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 1480-1484. | 2.8 | 67 |
| 7 | Freeze-dried MoS ₂ sponge electrodes for enhanced electrochemical energy storage. <i>Dalton Transactions</i> , 2017, 46, 2122-2128. | 3.3 | 67 |
| 8 | N-type graphene induced by dissociative H ₂ adsorption at room temperature. <i>Scientific Reports</i> , 2012, 2, 690. | 3.3 | 56 |
| 9 | Distribution of oxygen functional groups of graphene oxide obtained from low-temperature atomic layer deposition of titanium oxide. <i>RSC Advances</i> , 2017, 7, 13979-13984. | 3.6 | 51 |
| 10 | Ultra strong pyroprotein fibres with long-range ordering. <i>Nature Communications</i> , 2017, 8, 74. | 12.8 | 51 |
| 11 | Effect of sulphur vacancy on geometric and electronic structure of MoS ₂ induced by molecular hydrogen treatment at room temperature. <i>RSC Advances</i> , 2013, 3, 18424. | 3.6 | 47 |
| 12 | Restoration of thermally reduced graphene oxide by atomic-level selenium doping. <i>NPG Asia Materials</i> , 2016, 8, e338-e338. | 7.9 | 45 |
| 13 | Pyroprotein-Based Electronic Textiles with High Stability. <i>Advanced Materials</i> , 2017, 29, 1605479. | 21.0 | 42 |
| 14 | Investigation on the existence of optimum interlayer distance for H ₂ uptake using pillared-graphene oxide. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 14217-14222. | 7.1 | 32 |
| 15 | Enhanced Photocatalytic Performance of Nanosized Mixed-Ligand Metal-Organic Frameworks through Sequential Energy and Electron Transfer Process. <i>Inorganic Chemistry</i> , 2020, 59, 12947-12953. | 4.0 | 28 |
| 16 | Energy gap modulation in V ₂ O ₅ nanowires by gas adsorption. <i>Applied Physics Letters</i> , 2008, 93, . | 3.3 | 27 |
| 17 | Potential applications of nuisance microalgae blooms. <i>Journal of Applied Phycology</i> , 2015, 27, 1223-1234. | 2.8 | 27 |
| 18 | Electrical and thermoelectric transport by variable range hopping in reduced graphene oxide. <i>Applied Physics Letters</i> , 2017, 111, . | 3.3 | 27 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Energy storage of thermally reduced graphene oxide. International Journal of Hydrogen Energy, 2014, 39, 3799-3804. | 7.1 | 26 |
| 20 | Electronic Textiles Fabricated with Graphene Oxide-Coated Commercial Textiles. Coatings, 2021, 11, 489. | 2.6 | 13 |
| 21 | Effect of Oxygen Functional Groups in Reduced Graphene Oxide-Coated Silk Electronic Textiles for Enhancement of NO ₂ Gas-Sensing Performance. ACS Omega, 2021, 6, 27080-27088. | 3.5 | 13 |
| 22 | Verification of electron doping in single-layer graphene due to H ₂ exposure with thermoelectric power. Applied Physics Letters, 2015, 106, 142110. | 3.3 | 12 |
| 23 | Local doping of graphene devices by selective hydrogen adsorption. AIP Advances, 2015, 5, 017120. | 1.3 | 11 |
| 24 | The performance of green carbon as a backbone for hydrogen storage materials. International Journal of Hydrogen Energy, 2020, 45, 10516-10522. | 7.1 | 11 |
| 25 | Electrical quadruple hysteresis in Pd-doped vanadium pentoxide nanowires due to water adsorption. Science and Technology of Advanced Materials, 2010, 11, 065003. | 6.1 | 9 |
| 26 | Experimental evidence for interlayer decoupling distance of twisted bilayer graphene. AIP Advances, 2018, 8, 075228. | 1.3 | 9 |
| 27 | Influence of hydrogen incorporation on conductivity and work function of VO ₂ nanowires. Nanoscale, 2019, 11, 4219-4225. | 5.6 | 9 |
| 28 | Reversely fabricated dye-sensitized solar cells. RSC Advances, 2014, 4, 243-247. | 3.6 | 7 |
| 29 | Commercial Silk-Based Electronic Yarns Fabricated Using Microwave Irradiation. ACS Applied Materials & Interfaces, 2019, 11, 27353-27357. | 8.0 | 7 |
| 30 | Hydrogen Spillover in Pd-doped V ₂ O ₅ Nanowires at Room Temperature. Chemistry - an Asian Journal, 2012, 7, 684-687. | 3.3 | 6 |
| 31 | Electronic-dimensionality reduction of bulk MoS ₂ by hydrogen treatment. Physical Chemistry Chemical Physics, 2018, 20, 23007-23012. | 2.8 | 6 |
| 32 | Electrical current suppression in Pd-doped vanadium pentoxide nanowires caused by reduction in PdO due to hydrogen exposure. Applied Physics Letters, 2010, 96, 163111. | 3.3 | 5 |
| 33 | Electrical conduction of palladium-decorated multi-layered graphene oxide effected by hydrogen dissociation. Synthetic Metals, 2015, 199, 74-78. | 3.9 | 5 |
| 34 | Variation in the c-axis conductivity of multi-layer graphene due to H ₂ exposure. Physical Chemistry Chemical Physics, 2016, 18, 15514-15518. | 2.8 | 5 |
| 35 | Pyroprotein-based electronic textiles with high thermal durability. Materials Today, 2018, 21, 944-950. | 14.2 | 5 |
| 36 | Manipulation of electrical properties in CVD-grown twisted bilayer graphene induced by dissociative hydrogen adsorption. Current Applied Physics, 2016, 16, 1637-1641. | 2.4 | 4 |

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|----|--|-----|-----------|
| 37 | Efficient Fe ^{II} /N _x /C electrocatalyst for the oxygen reduction reaction derived from porphyrin-encapsulated zeolitic imidazolate frameworks. <i>New Journal of Chemistry</i> , 2021, 45, 6018-6024. | 2.8 | 4 |
| 38 | The Observation of Electrical Hysteric Behavior in Synthesized V ₂ O ₅ Nanoplates by Recrystallization. <i>Journal of Nanomaterials</i> , 2013, 2013, 1-7. | 2.7 | 3 |
| 39 | Interaction between V ₂ O ₅ nanowires and high pressure CO ₂ gas up to 45 Åbar: Electrical and structural study. <i>Journal of Advanced Research</i> , 2020, 24, 205-209. | 9.5 | 3 |
| 40 | Effect of high H ₂ pressure on the structural and the electrical properties of MoS ₂ . <i>Journal of the Korean Physical Society</i> , 2021, 79, 38. | 0.7 | 3 |
| 41 | Electrical transport property of ZnO thin films at high H ₂ pressures up to 20 bar. <i>Journal of the Korean Physical Society</i> , 2016, 69, 277-281. | 0.7 | 2 |
| 42 | Fabrication of Chromatic Electronic Textiles Synthesized by Conducting Polymer. <i>Journal of the Korean Physical Society</i> , 2019, 74, 122-126. | 0.7 | 2 |
| 43 | Effect of Oxygen for Enhancing the Gas Storage Performance of Activated Green Carbon. <i>Energies</i> , 2020, 13, 3893. | 3.1 | 2 |
| 44 | Charge transport in pyroprotein-based electronic yarns. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 26910-26916. | 2.8 | 2 |
| 45 | Symmetric Negative Differential Resistance in a Molecular Nanosilver Chain. <i>Journal of Nanomaterials</i> , 2013, 2013, 1-5. | 2.7 | 1 |
| 46 | Optimum interlayer distance for hydrogen storage in pillared-graphene oxide determined by H ₂ pressure-dependent electrical conductance. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 16136-16140. | 7.1 | 1 |
| 47 | Tuning the electronic structure of single-walled carbon nanotube by high-pressure H ₂ exposure. <i>Nanotechnology</i> , 2019, 30, 065201. | 2.6 | 1 |
| 48 | Charge Transport at the Interface between Graphene Oxide and Silk in Highly Flexible Commercial Silk-Based e-Textile Treated at High Temperatures. <i>ACS Applied Electronic Materials</i> , 2022, 4, 3543-3548. | 4.3 | 1 |