Byung Hoon Kim

List of Publications by Year
in descending order

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48 papers	1,467 citations	394421 19 h-index	315739 38 g-index
48 all docs	48 docs citations	48 times ranked	2963 citing authors

#	Article	IF	Citations
1	Charge Transport at the Interface between Graphene Oxide and Silk in Highly Flexible Commercial Silk-Based e-Textile Treated at High Temperatures. ACS Applied Electronic Materials, 2022, 4, 3543-3548.	4.3	1
2	Efficient Feâ€“Nx/C electrocatalyst for the oxygen reduction reaction derived from porphyrin-encapsulated zeolitic imidazolate frameworks. New Journal of Chemistry, 2021, 45, 6018-6024.	2.8	4
3	Effect of high H2 pressure on the structural and the electrical properties of MoS2. Journal of the Korean Physical Society, 2021, 79, 38.	0.7	3
4	Electronic Textiles Fabricated with Graphene Oxide-Coated Commercial Textiles. Coatings, 2021, 11, 489.	2.6	13
5	Effect of Oxygen Functional Groups in Reduced Graphene Oxide-Coated Silk Electronic Textiles for Enhancement of NO₂ Gas-Sensing Performance. ACS Omega, 2021, 6, 27080-27088.	3.5	13
6	The performance of green carbon as a backbone for hydrogen storage materials. International Journal of Hydrogen Energy, 2020, 45, 10516-10522.	7.1	11
7	Effect of Oxygen for Enhancing the Gas Storage Performance of Activated Green Carbon. Energies, 2020, 13, 3893.	3.1	2
8	Enhanced Photocatalytic Performance of Nanosized Mixed-Ligand Metalâ€“Organic Frameworks through Sequential Energy and Electron Transfer Process. Inorganic Chemistry, 2020, 59, 12947-12953.	4.0	28
9	Charge transport in pyroprotein-based electronic yarns. Physical Chemistry Chemical Physics, 2020, 22, 26910-26916.	2.8	2
10	Interaction between V2O5 nanowires and high pressure CO2 gas up to 45Âbar: Electrical and structural study. Journal of Advanced Research, 2020, 24, 205-209.	9.5	3
11	Commercial Silk-Based Electronic Yarns Fabricated Using Microwave Irradiation. ACS Applied Materials & Interfaces, 2019, 11, 27353-27357.	8.0	7
12	Fabrication of Chromatic Electronic Textiles Synthesized by Conducting Polymer. Journal of the Korean Physical Society, 2019, 74, 122-126.	0.7	2
13	Influence of hydrogen incorporation on conductivity and work function of VO₂ nanowires. Nanoscale, 2019, 11, 4219-4225.	5.6	9
14	Tuning the electronic structure of single-walled carbon nanotube by high-pressure H₂ exposure. Nanotechnology, 2019, 30, 065201.	2.6	1
15	Pyroprotein-based electronic textiles with high thermal durability. Materials Today, 2018, 21, 944-950.	14.2	5
16	Optimum interlayer distance for hydrogen storage in pillared-graphene oxide determined by H2 pressure-dependent electrical conductance. International Journal of Hydrogen Energy, 2018, 43, 16136-16140.	7.1	1
17	Electronic-dimensionality reduction of bulk MoS₂ by hydrogen treatment. Physical Chemistry Chemical Physics, 2018, 20, 23007-23012.	2.8	6
18	Experimental evidence for interlayer decoupling distance of twisted bilayer graphene. AIP Advances, 2018, 8, 075228.	1.3	9

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19	Distribution of oxygen functional groups of graphene oxide obtained from low-temperature atomic layer deposition of titanium oxide. RSC Advances, 2017, 7, 13979-13984.	3.6	51
20	Pyroproteinâ€Based Electronic Textiles with High Stability. Advanced Materials, 2017, 29, 1605479.	21.0	42
21	Freeze-dried MoS₂ sponge electrodes for enhanced electrochemical energy storage. Dalton Transactions, 2017, 46, 2122-2128.	3.3	67
22	Electrical and thermoelectric transport by variable range hopping in reduced graphene oxide. Applied Physics Letters, 2017, 111, .	3.3	27
23	Ultra strong pyroprotein fibres with long-range ordering. Nature Communications, 2017, 8, 74.	12.8	51
24	Restoration of thermally reduced graphene oxide by atomic-level selenium doping. NPG Asia Materials, 2016, 8, e338-e338.	7.9	45
25	Variation in the c-axis conductivity of multi-layer graphene due to H2 exposure. Physical Chemistry Chemical Physics, 2016, 18, 15514-15518.	2.8	5
26	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
27	Electrical transport property of ZnO thin films at high H2 pressures up to 20 bar. Journal of the Korean Physical Society, 2016, 69, 277-281.	0.7	2
28	Local doping of graphene devices by selective hydrogen adsorption. AIP Advances, 2015, 5, 017120.	1.3	11
29	Ultrasensitive and Highly Selective Graphene-Based Single Yarn for Use in Wearable Gas Sensor. Scientific Reports, 2015, 5, 10904.	3.3	142
30	Carbonization of a stable Î²-sheet-rich silk protein into a pseudographitic pyroprotein. Nature Communications, 2015, 6, 7145.	12.8	192
31	One-step hydrothermal synthesis of graphene decorated V2O5 nanobelts for enhanced electrochemical energy storage. Scientific Reports, 2015, 5, 8151.	3.3	170
32	Sodiumâ€Ion Storage in Pyroproteinâ€Based Carbon Nanoplates. Advanced Materials, 2015, 27, 6914-6921.	21.0	120
33	Verification of electron doping in single-layer graphene due to H2 exposure with thermoelectric power. Applied Physics Letters, 2015, 106, 142110.	3.3	12
34	Electrical conduction of palladium-decorated multi-layered graphene oxide effected by hydrogen dissociation. Synthetic Metals, 2015, 199, 74-78.	3.9	5
35	Potential applications of nuisance microalgae blooms. Journal of Applied Phycology, 2015, 27, 1223-1234.	2.8	27
36	Energy storage of thermally reduced graphene oxide. International Journal of Hydrogen Energy, 2014, 39, 3799-3804.	7.1	26

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37	Reversely fabricated dye-sensitized solar cells. RSC Advances, 2014, 4, 243-247.	3.6	7
38	Effect of sulphur vacancy on geometric and electronic structure of MoS2 induced by molecular hydrogen treatment at room temperature. RSC Advances, 2013, 3, 18424.	3.6	47
39	The Observation of Electrical Hysteric Behavior in Synthesized V₂O₅Nanoplates by Recrystallization. Journal of Nanomaterials, 2013, 2013, 1-7.	2.7	3
40	Symmetric Negative Differential Resistance in a Molecular Nanosilver Chain. Journal of Nanomaterials, 2013, 2013, 1-5.	2.7	1
41	N-type graphene induced by dissociative H2 adsorption at room temperature. Scientific Reports, 2012, 2, 690.	3.3	56
42	Thermally modulated multilayered graphene oxide for hydrogen storage. Physical Chemistry Chemical Physics, 2012, 14, 1480-1484.	2.8	67
43	Investigation on the existence of optimum interlayer distance for H2 uptake using pillared-graphene oxide. International Journal of Hydrogen Energy, 2012, 37, 14217-14222.	7.1	32
44	Hydrogen Spillover in Pdâ€doped V₂O₅ Nanowires at Room Temperature. Chemistry - an Asian Journal, 2012, 7, 684-687.	3.3	6
45	Agent-free synthesis of graphene oxide/transition metal oxide composites and its application for hydrogen storage. International Journal of Hydrogen Energy, 2012, 37, 7594-7599.	7.1	88
46	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
47	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
48	Energy gap modulation in V2O5 nanowires by gas adsorption. Applied Physics Letters, 2008, 93, .	3.3	27