Abhijit Ganguly

List of Publications by Year
in descending order

41 papers	4,684 citations	236925 25 h-index	302126 39 g-index
43 all docs	43 docs citations	43 times ranked	8951 citing authors

#	Article	IF	Citations
1	Impedimetric detection of miRNA biomarkers using paper-based electrodes modified with bulk crystals or nanosheets of molybdenum disulfide. Talanta, 2022, 241, 123233.	5.5	18
2	One-Step Hydrothermal Synthesis of Phase-Engineered MoS₂/MoO₃ Electrocatalysts for Hydrogen Evolution Reaction. ACS Applied Nano Materials, 2021, 4, 2642-2656.	5.0	78
3	Paper-Based Electrochemical Biosensors for Voltammetric Detection of miRNA Biomarkers Using Reduced Graphene Oxide or MoS2 Nanosheets Decorated with Gold Nanoparticle Electrodes. Biosensors, 2021, 11, 236.	4.7	42
4	Radially Grown Graphene Nanoflakes for Tough and Strong Carbon Fiber Epoxy Composites. ACS Applied Nano Materials, 2021, 4, 9167-9180.	5.0	4
5	Multifunctional Structural Supercapacitor Based on Urea-Activated Graphene Nanoflakes Directly Grown on Carbon Fiber Electrodes. ACS Applied Energy Materials, 2020, 3, 4245-4254.	5.1	48
6	Radially Grown Graphene Nanoflakes on Carbon Fibers as Reinforcing Interface for Polymer Composites. ACS Applied Nano Materials, 2020, 3, 2402-2413.	5.0	44
7	Bismuthene nanosheets produced by ionic liquid assisted grinding exfoliation and their use for oxygen reduction reaction. RSC Advances, 2020, 10, 43585-43591.	3.6	13
8	Organic Solvent Based Synthesis of Gold Nanoparticleâ^'Semiconducting 2H-MoS₂ Hybrid Nanosheets. Journal of Physical Chemistry C, 2019, 123, 10646-10657.	3.1	11
9	Sensitive Chronocoulometric Detection of miRNA at Screen-Printed Electrodes Modified by Gold-Decorated MoS₂Nanosheets. ACS Applied Bio Materials, 2018, 1, 1184-1194.	4.6	33
10	Chemical Modification of Graphene Oxide by Nitrogenation: An X-ray Absorption and Emission Spectroscopy Study. Scientific Reports, 2017, 7, 42235.	3.3	43
11	Multi-porous Co₃O₄ nanoflakes @ sponge-like few-layer partially reduced graphene oxide hybrids: towards highly stable asymmetric supercapacitors. Journal of Materials Chemistry A, 2017, 5, 12569-12577.	10.3	96
12	Enhanced thermoelectric performance in a percolated bismuth sulfide composite. RSC Advances, 2016, 6, 98952-98955.	3.6	6
13	Non-covalent functionalization of CVD-grown graphene with Au nanoparticles for electrochemical sensing application. Journal of Nanostructure in Chemistry, 2016, 6, 281-288.	9.1	14
14	Directlyâ€Grown Hierarchical Carbon Nanotube@Polypyrrole Coreâ€“Shell Hybrid for Highâ€Performance Flexible Supercapacitors. ChemSusChem, 2016, 9, 370-378.	6.8	52
15	Side Group of Poly(3-alkylthiophene)s Controlled Dispersion of Single-Walled Carbon Nanotubes for Transparent Conducting Film. ACS Applied Materials & Interfaces, 2015, 7, 4616-4622.	8.0	11
16	Edge promoted ultrasensitive electrochemical detection of organic bio-molecules on epitaxial graphene nanowalls. Biosensors and Bioelectronics, 2015, 70, 137-144.	10.1	40
17	Conducting polymerâ€based flexible supercapacitor. Energy Science and Engineering, 2015, 3, 2-26.	4.0	516
18	Vertically aligned epitaxial graphene nanowalls with dominated nitrogen doping for superior supercapacitors. Carbon, 2015, 82, 124-134.	10.3	67

#	Article	IF	Citations
19	Production and Storage of Energy with One-Dimensional Semiconductor Nanostructures. Critical Reviews in Solid State and Materials Sciences, 2014, 39, 109-153.	12.3	9
20	Highly Efficient Visible Light Photocatalytic Reduction of CO₂ to Hydrocarbon Fuels by Cu-Nanoparticle Decorated Graphene Oxide. Nano Letters, 2014, 14, 6097-6103.	9.1	312
21	Band Gap Engineering of Chemical Vapor Deposited Graphene by in Situ BN Doping. ACS Nano, 2013, 7, 1333-1341.	14.6	252
22	Thermal stability study of nitrogen functionalities in a graphene network. Journal of Physics Condensed Matter, 2012, 24, 235503.	1.8	55
23	Nitrogen-Functionalized Graphene Nanoflakes (GNFs:N): Tunable Photoluminescence and Electronic Structures. Journal of Physical Chemistry C, 2012, 116, 16251-16258.	3.1	51
24	Enhancing efficiency with fluorinated interlayers in small molecule organic solar cells. Journal of Materials Chemistry, 2012, 22, 22899.	6.7	20
25	Recent Advances in GaN Nanowires: Surface-Controlled Conduction and Sensing Applications. Springer Series in Materials Science, 2012, , 295-315.	0.6	3
26	Ultrasensitive in Situ Label-Free DNA Detection Using a GaN Nanowire-Based Extended-Gate Field-Effect-Transistor Sensor. Analytical Chemistry, 2011, 83, 1938-1943.	6.5	129
27	Probing the Thermal Deoxygenation of Graphene Oxide Using High-Resolution In Situ X-ray-Based Spectroscopies. Journal of Physical Chemistry C, 2011, 115, 17009-17019.	3.1	1,271
28	Optical properties of functionalized GaN nanowires. Journal of Applied Physics, 2011, 109, 053523.	2.5	17
29	Anti-reflecting and photonic nanostructures. Materials Science and Engineering Reports, 2010, 69, 1-35.	31.8	531
30	Direct voltammetric sensing of l-Cysteine at pristine GaN nanowires electrode. Biosensors and Bioelectronics, 2010, 26, 1688-1691.	10.1	57
31	Rapid Microwave Synthesis of CO Tolerant Reduced Graphene Oxide-Supported Platinum Electrocatalysts for Oxidation of Methanol. Journal of Physical Chemistry C, 2010, 114, 19459-19466.	3.1	386
32	Direct-growth of polyaniline nanowires for enzyme-immobilization and glucose detection. Electrochemistry Communications, 2009, 11, 850-853.	4.7	67
33	One-Dimensional Group III-Nitrides: Growth, Properties, and Applications in Nanosensing and Nano-Optoelectronics. Critical Reviews in Solid State and Materials Sciences, 2009, 34, 224-279.	12.3	59
34	Growth and luminescence properties of one-dimensional InN and InGaN nanostructures. , 2009, , .		0
35	Label-Free Dual Sensing of DNA Molecules Using GaN Nanowires. Analytical Chemistry, 2009, 81, 36-42.	6.5	84
36	Functionalized GaN nanowire-based electrode for direct label-free voltammetric detection of DNA hybridization. Journal of Materials Chemistry, 2009, 19, 928.	6.7	48

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37	Enhanced Emission of (In, Ga) Nitride Nanowires Embedded with Selfâ€Assembled Quantum Dots. Advanced Functional Materials, 2008, 18, 938-942.	14.9	16
38	Field emission effects of nitrogenated carbon nanotubes on chlorination and oxidation. Journal of Applied Physics, 2008, 104, 063710.	2.5	18
39	Thermal diffusivity study in supported epitaxial InN thin films by the traveling-wave technique. Journal of Applied Physics, 2008, 104, .	2.5	4
40	RECENT TRENDS IN INDIUM NITRIDE NANOMATERIALS. , 2008, , 431-462.		1
41	Anomalous blueshift in emission spectra of ZnO nanorods with sizes beyond quantum confinement regime. Applied Physics Letters, 2006, 88, 241905.	3.3	158