Susanta Sinha Roy

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 1 | Electrochemical impedimetric analysis of different dimensional (0D–2D) carbon nanomaterials for effective biosensing of L-tyrosine. Measurement Science and Technology, 2022, 33, 014002. | 2.6 | 2 |
| 2 | Hydrothermally Synthesized Sulfur-Doped Graphite as Supercapacitor Electrode Materials. ACS Applied Nano Materials, 2022, 5, 3548-3557. | 5.0 | 9 |
| 3 | High-Performance MnO ₂ Nanowire/MoS ₂ Nanosheet Composite for a Symmetrical Solid-State Supercapacitor. ACS Omega, 2022, 7, 16895-16905. | 3.5 | 22 |
| 4 | Disposable Paper-Based Biosensors: Optimizing the Electrochemical Properties of Laser-Induced Graphene. ACS Applied Materials & Interfaces, 2022, 14, 31109-31120. | 8.0 | 16 |
| 5 | Potentiometric ion-selective sensors based on UV-ozone irradiated laser-induced graphene electrode. Electrochimica Acta, 2021, 387, 138341. | 5.2 | 16 |
| 6 | Polarity dependent electrowetting for directional transport of water through patterned superhydrophobic laser induced graphene fibers. Carbon, 2021, 182, 605-614. | 10.3 | 21 |
| 7 | Single-step synthesis of core-shell diamond-graphite hybrid nano-needles as efficient supercapacitor electrode. Electrochimica Acta, 2021, 397, 139267. | 5.2 | 4 |
| 8 | Metalâ€oxide nanomaterials recycled from <scp>Eâ€waste</scp> and metal industries: A concise review of applications in energy storage, catalysis, and sensing. International Journal of Energy Research, 2021, 45, 8091-8102. | 4.5 | 11 |
| 9 | Effect of Inlet Contactors of Splitting Distributors for Parallel Microchannels. Industrial & Engineering Chemistry Research, 2021, 60, 16682-16700. | 3.7 | 4 |
| 10 | Nitrogen-Incorporated Boron-Doped Nanocrystalline Diamond Nanowires for Microplasma Illumination. ACS Applied Materials & Interfaces, 2021, 13, 55687-55699. | 8.0 | 9 |
| 11 | Microfluidic Affinity Sensor Based on a Molecularly Imprinted Polymer for Ultrasensitive Detection of Chlorpyrifos. ACS Omega, 2020, 5, 31765-31773. | 3.5 | 27 |
| 12 | Single-step grown boron doped nanocrystalline diamond-carbon nanograss hybrid as an efficient supercapacitor electrode. Nanoscale, 2020, 12, 10117-10126. | 5.6 | 23 |
| 13 | Recycled Red Mud–Decorated Porous 3D Graphene for Highâ€Energy Flexible Micro upercapacitor. Advanced Sustainable Systems, 2020, 4, 1900133. | 5.3 | 25 |
| 14 | Cost effective liquid phase exfoliation of MoS2 nanosheets and photocatalytic activity for wastewater treatment enforced by visible light. Scientific Reports, 2020, 10, 10759. | 3.3 | 100 |
| 15 | Potential use of smartly engineered red mud nanoparticles for removal of arsenate and pathogens from drinking water. SN Applied Sciences, 2020, 2, 1. | 2.9 | 6 |
| 16 | Red Mud-Reduced Graphene Oxide Nanocomposites for the Electrochemical Sensing of Arsenic. ACS Applied Nano Materials, 2020, 3, 4084-4090. | 5.0 | 21 |
| 17 | Direct synthesis of electrowettable nanostructured hybrid diamond. Journal of Materials Chemistry A, 2019, 7, 19026-19036. | 10.3 | 9 |
| 18 | Laser-Patternable Graphene Field Emitters for Plasma Displays. Nanomaterials, 2019, 9, 1493. | 4.1 | 5 |

SUSANTA SINHA ROY

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|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 19 | 3D Hierarchical Boron-Doped Diamond-Multilayered Graphene Nanowalls as an Efficient Supercapacitor Electrode. Journal of Physical Chemistry C, 2019, 123, 15458-15466. | 3.1 | 35 |
| 20 | Effective Utilization of Waste Red Mud for High Performance Supercapacitor Electrodes. Global Challenges, 2019, 3, 1800066. | 3.6 | 24 |
| 21 | Evaluating the fabric performance and antibacterial properties of 3-D piezoelectric spacer fabric. Journal of the Textile Institute, 2018, 109, 1613-1619. | 1.9 | 3 |
| 22 | Biofilm formation by <i>Exiguobacterium</i> sp. DR11 and DR14 alter polystyrene surface properties and initiate biodegradation. RSC Advances, 2018, 8, 37590-37599. | 3.6 | 68 |
| 23 | Fabrication of efficient dye-sensitized solar cells with photoanode containing TiO2–Au and TiO2–Ag plasmonic nanocomposites. Journal of Materials Science: Materials in Electronics, 2018, 29, 18209-18220. | 2.2 | 15 |
| 24 | Fabrication of free-standing graphene oxide films using a facile approach toluene swollen paraffin peeling and green reduction of these films into highly conductive reduced graphene oxide films. Chemical Engineering Journal, 2018, 354, 149-161. | 12.7 | 13 |
| 25 | Nanostructured nitrogen doped diamond for the detection of toxic metal ions. Electrochimica Acta, 2018, 283, 1871-1878. | 5.2 | 24 |
| 26 | Enhanced efficiency of PbS quantum dot-sensitized solar cells using plasmonic photoanode. Journal of Nanoparticle Research, 2018, 20, 1. | 1.9 | 9 |
| 27 | Fabrication, microstructure, and enhanced thermionic electron emission properties of vertically aligned nitrogen-doped nanocrystalline diamond nanorods. MRS Communications, 2018, 8, 1311-1320. | 1.8 | 1 |
| 28 | Novel π-conjugated iron oxide/reduced graphene oxide nanocomposites for high performance electrochemical supercapacitors. RSC Advances, 2017, 7, 327-335. | 3.6 | 30 |
| 29 | Terephthalic acid capped iron oxide nanoparticles for sensitive electrochemical detection of heavy metal ions in water. Journal of Electroanalytical Chemistry, 2017, 788, 91-98. | 3.8 | 103 |
| 30 | Experimental and theoretical analysis of a hybrid solar thermoelectric generator with forced convection cooling. Journal Physics D: Applied Physics, 2017, 50, 015501. | 2.8 | 31 |
| 31 | Aloe vera assisted facile green synthesis of reduced graphene oxide for electrochemical and dye removal applications. RSC Advances, 2017, 7, 26680-26688. | 3.6 | 116 |
| 32 | Probing the flat band potential and effective electronic carrier density in vertically aligned nitrogen doped diamond nanorods via electrochemical method. Electrochimica Acta, 2017, 246, 68-74. | 5.2 | 15 |
| 33 | Tuning the Electronic and Magnetic Properties of Nitrogen-Functionalized Few-Layered Graphene Nanoflakes. Journal of Physical Chemistry C, 2017, 121, 14073-14082. | 3.1 | 24 |
| 34 | Structural and compositional changes in single wall carbon nanotube ensemble upon exposure to microwave plasma. Journal of Applied Physics, 2017, 122, 154303. | 2.5 | 1 |
| 35 | Application of oil-swollen surfactant gels as a growth medium for metal nanoparticle synthesis, and as an exfoliation medium for preparation of graphene. Journal of Colloid and Interface Science, 2016, 474, 41-50. | 9.4 | 5 |
| 36 | Performance analysis of a hybrid solar thermoelectric generator. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2016, 38, 2977-2984. | 2.3 | 10 |

SUSANTA SINHA ROY

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|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | Plasma modification of the electronic and magnetic properties of vertically aligned bi-/tri-layered graphene nanoflakes. RSC Advances, 2016, 6, 70913-70924. | 3.6 | 5 |
| 38 | Multifunctional reduced graphene oxide coated cloths for oil/water separation and antibacterial application. RSC Advances, 2016, 6, 62760-62767. | 3.6 | 21 |
| 39 | Growth, structural and plasma illumination properties of nanocrystalline diamond-decorated graphene nanoflakes. RSC Advances, 2016, 6, 63178-63184. | 3.6 | 19 |
| 40 | Fast and facile preparation of CTAB based gels and their applications in Au and Ag nanoparticles synthesis. Materials Chemistry and Physics, 2015, 156, 105-112. | 4.0 | 10 |
| 41 | Grape extract assisted green synthesis of reduced graphene oxide for water treatment application. Materials Letters, 2015, 160, 355-358. | 2.6 | 98 |
| 42 | EXPERIMENTAL STUDIES OF SURFACE-DRIVEN CAPILLARY FLOW IN PMMA MICROFLUIDIC DEVICES PREPARED BY DIRECT BONDING TECHNIQUE AND PASSIVE SEPARATION OF MICROPARTICLES IN MICROFLUIDIC LABORATORY-ON-A-CHIP SYSTEMS. Surface Review and Letters, 2015, 22, 1550050. | 1.1 | 4 |
| 43 | Optical, structural, catalytic and electrochemical properties of the Au nanoparticles synthesized using CTAB based gels. Journal of Materials Science: Materials in Electronics, 2015, 26, 7515-7522. | 2.2 | 2 |
| 44 | Role of graphene/metal oxide composites as photocatalysts, adsorbents and disinfectants in water treatment: a review. RSC Advances, 2014, 4, 3823-3851. | 3.6 | 556 |
| 45 | Diameter control of single wall carbon nanotubes synthesized using chemical vapor deposition. Applied Surface Science, 2014, 321, 70-79. | 6.1 | 13 |
| 46 | Recent advances in thermoelectric materials and solar thermoelectric generators – a critical review. RSC Advances, 2014, 4, 46860-46874. | 3.6 | 122 |
| 47 | Graphene Supported Graphone/Graphane Bilayer Nanostructure Material for Spintronics. Scientific Reports, 2014, 4, 3862. | 3.3 | 55 |
| 48 | Electrochemical and oxygen reduction properties of pristine and nitrogen-doped few layered graphene nanoflakes (FLGs). Journal of Solid State Electrochemistry, 2013, 17, 2139-2149. | 2.5 | 29 |
| 49 | Dynamics of liquid droplets in an evaporating drop: liquid droplet "coffee stain―effect. RSC Advances, 2012, 2, 8390. | 3.6 | 20 |
| 50 | Nanocrystalline ruthenium oxide dispersed Few Layered Graphene (FLG) nanoflakes as supercapacitor electrodes. Journal of Materials Chemistry, 2012, 22, 14944. | 6.7 | 136 |
| 51 | Exploring the fundamental effects of deposition time on the microstructure of graphene nanoflakes by Raman scattering and X-ray diffraction. CrystEngComm, 2011, 13, 312-318. | 2.6 | 56 |
| 52 | Enhanced and Stable Field Emission from in Situ Nitrogen-Doped Few-Layered Graphene Nanoflakes. Journal of Physical Chemistry C, 2011, 115, 5366-5372. | 3.1 | 156 |
| 53 | Graphene oxide for electrochemical sensing applications. Journal of Materials Chemistry, 2011, 21, 14725. | 6.7 | 119 |
| 54 | Microstructural and electrochemical properties of vertically aligned few layered graphene (FLG) nanoflakes and their application in methanol oxidation. Materials Chemistry and Physics, 2011, 129, 1051-1057. | 4.0 | 69 |

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|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 55 | Enhanced Field Emission and Improved Supercapacitor Obtained from Plasmaâ€Modified Bucky Paper. Small, 2011, 7, 688-693. | 10.0 | 27 |
| 56 | Dielectric Properties of a Ferroelectric Liquid Crystal Mixture Under Bias Electric Field. Molecular Crystals and Liquid Crystals, 1995, 265, 577-590. | 0.3 | 10 |