

Prabir K Patra

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

856
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687363

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docs citations

37
times ranked

1501
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | hESC-Derived Thalamic Organoids Form Reciprocal Projections When Fused with Cortical Organoids. <i>Cell Stem Cell</i> , 2019, 24, 487-497.e7. | 11.1 | 305 |
| 2 | Electroactive graphene composite scaffolds for cardiac tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , 2018, 106, 2923-2933. | 4.0 | 68 |
| 3 | Advances in three-dimensional bioprinting of bone: Progress and challenges. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2019, 13, 925-945. | 2.7 | 59 |
| 4 | Hybrid Electrodes by In-Situ Integration of Graphene and Carbon-Nanotubes in Polypyrrole for Supercapacitors. <i>Scientific Reports</i> , 2015, 5, 14445. | 3.3 | 58 |
| 5 | Dysregulation of BRD4 Function Underlies the Functional Abnormalities of MeCP2 Mutant Neurons. <i>Molecular Cell</i> , 2020, 79, 84-98.e9. | 9.7 | 53 |
| 6 | Graphene Quantum Dots: Synthesis and Applications. <i>Methods in Enzymology</i> , 2018, 609, 335-354. | 1.0 | 41 |
| 7 | Calcium carbonate and ammonium polyphosphate-based flame retardant composition for polypropylene. <i>Journal of Applied Polymer Science</i> , 2011, 120, 1866-1873. | 2.6 | 40 |
| 8 | Graphene Quantum Dot Oxidation Governs Noncovalent Biopolymer Adsorption. <i>Scientific Reports</i> , 2020, 10, 7074. | 3.3 | 36 |
| 9 | Algal Cell Response to Pulsed Waved Stimulation and Its Application to Increase Algal Lipid Production. <i>Scientific Reports</i> , 2017, 7, 42003. | 3.3 | 21 |
| 10 | An experimental modeling of trinomial bioengineering- crp, rDNA, and transporter engineering within single cell factory for maximizing two-phase bioreduction. <i>International Journal of Biological Macromolecules</i> , 2017, 95, 818-825. | 7.5 | 21 |
| 11 | Bacteria as Bio-Template for 3D Carbon Nanotube Architectures. <i>Scientific Reports</i> , 2017, 7, 9855. | 3.3 | 21 |
| 12 | Cytogenetic evaluation of functionalized single-walled carbon nanotube in mice bone marrow cells. <i>Environmental Toxicology</i> , 2016, 31, 1091-1102. | 4.0 | 19 |
| 13 | Hydrolyzed Poly(acrylonitrile) Electrospun Ion-Exchange Fibers. <i>Environmental Engineering Science</i> , 2014, 31, 288-299. | 1.6 | 16 |
| 14 | Nanoformulated water-soluble paclitaxel to enhance drug efficacy and reduce hemolysis side effect. <i>Journal of Biomaterials Applications</i> , 2017, 32, 66-73. | 2.4 | 13 |
| 15 | Interactions between avidin and graphene for development of a biosensing platform. <i>Biosensors and Bioelectronics</i> , 2017, 89, 326-333. | 10.1 | 12 |
| 16 | Graphene nanofiber composites for enhanced neuronal differentiation of human mesenchymal stem cells. <i>Nanomedicine</i> , 2021, 16, 1963-1982. | 3.3 | 12 |
| 17 | Detection of Cardiovascular CRP Protein Biomarker Using a Novel Nanofibrous Substrate. <i>Biosensors</i> , 2020, 10, 72. | 4.7 | 10 |
| 18 | Rotaxane nanomachines in future molecular electronics. <i>Nanoscale Advances</i> , 2022, 4, 3418-3461. | 4.6 | 9 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Foam-Like Behavior in Compliant, Continuously Reinforced Nanocomposites. <i>Advanced Functional Materials</i> , 2013, 23, 3002-3007. | 14.9 | 8 |
| 20 | Energy harvesting using nana scale dual layers PVDF film for blood artery. , 2013, , . | | 6 |
| 21 | A Computational Approach for Understanding the Interactions between Graphene Oxide and Nucleoside Diphosphate Kinase with Implications for Heart Failure. <i>Nanomaterials</i> , 2018, 8, 57. | 4.1 | 6 |
| 22 | Manipulating Extracellular Matrix Organizations and Parameters to Control Local Cancer Invasion. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2021, 18, 2566-2576. | 3.0 | 4 |
| 23 | Patterned Polymer Nanofibers Based Biosensors. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1358, 30701. | 0.1 | 3 |
| 24 | Evaluation of Novel Design Strategies for Developing Zinc Finger Nucleases Tools for Treating Human Diseases. <i>Biotechnology Research International</i> , 2014, 2014, 1-27. | 1.4 | 3 |
| 25 | Increasing vaccine production using pulsed ultrasound waves. <i>PLoS ONE</i> , 2017, 12, e0187048. | 2.5 | 3 |
| 26 | Intermediate Frequency AC Signal Analysis for Bionanosensor. <i>Journal of Nanotechnology</i> , 2011, 2011, 1-9. | 3.4 | 2 |
| 27 | Residue Specific and Chirality Dependent Interactions between Carbon Nanotubes and Flagellin. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2016, 13, 541-548. | 3.0 | 2 |
| 28 | [2]Rotaxane as a switch for molecular electronic memory application: A molecular dynamics study. <i>Journal of Molecular Graphics and Modelling</i> , 2022, 114, 108163. | 2.4 | 2 |
| 29 | Modeling iced bio-bandage design for skin burns. , 2014, , . | | 1 |
| 30 | Human genome regulation. <i>Bioengineered</i> , 2016, 7, 57-59. | 3.2 | 1 |
| 31 | Dewetting assisted self-assembly of graphene nanoparticles by diverse approaches. <i>Bulletin of Materials Science</i> , 2021, 44, 1. | 1.7 | 1 |
| 32 | Ion Exchange Functional Nanofibers. <i>Materials Research Society Symposia Proceedings</i> , 2009, 1240, 1. | 0.1 | 0 |
| 33 | Intravascular multi-layered glucose sensors for an artificial pancreas. , 2013, , . | | 0 |
| 34 | Magnetotaxis for nanofabrication. , 2014, , . | | 0 |
| 35 | A magnetic micropump with tri-membrane fully differential structure. , 2014, , . | | 0 |
| 36 | Polycaprolactone nanofibrous materials as an efficient dry eye test strip. , 2014, , . | | 0 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | High-performance computing will assist experiments in recovery from COVID-19. Exploration of Medicine, 2020, 1, 355-358. | 1.5 | 0 |