

Partha Bairi

List of Publications by Year in descending order

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49
papers

2,177
citations

185998

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223531

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docs citations

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times ranked

2716
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Redox-Switchable Copper(I) Metallogel: A Metal-Organic Material for Selective and Naked-Eye Sensing of Picric Acid. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 6308-6316. | 4.0 | 137 |
| 2 | Hierarchically Structured Fullerene C ₇₀ Cube for Sensing Volatile Aromatic Solvent Vapors. <i>ACS Nano</i> , 2016, 10, 6631-6637. | 7.3 | 137 |
| 3 | Supramolecular assembly of melamine and its derivatives: nanostructures to functional materials. <i>RSC Advances</i> , 2014, 4, 1708-1734. | 1.7 | 106 |
| 4 | Graphene Quantum Dots from a Facile Sono-Fenton Reaction and Its Hybrid with a Polythiophene Graft Copolymer toward Photovoltaic Application. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 12672-12680. | 4.0 | 94 |
| 5 | Co-assembled White-Light-Emitting Hydrogel of Melamine. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 5478-5485. | 4.0 | 86 |
| 6 | Mesoporous carbon cubes derived from fullerene crystals as a high rate performance electrode material for supercapacitors. <i>Journal of Materials Chemistry A</i> , 2019, 7, 12654-12660. | 5.2 | 86 |
| 7 | Supramolecular Differentiation for Construction of Anisotropic Fullerene Nanostructures by Time-Programmed Control of Interfacial Growth. <i>ACS Nano</i> , 2016, 10, 8796-8802. | 7.3 | 82 |
| 8 | Mesoporous graphitic carbon microtubes derived from fullerene C ₇₀ tubes as a high performance electrode material for advanced supercapacitors. <i>Journal of Materials Chemistry A</i> , 2016, 4, 13899-13906. | 5.2 | 81 |
| 9 | Redox-Responsive Copper(I) Metallogel: A Metal-Organic Hybrid Sorbent for Reductive Removal of Chromium(VI) from Aqueous Solution. <i>Langmuir</i> , 2014, 30, 7833-7841. | 1.6 | 77 |
| 10 | Improved mechanical and photophysical properties of chitosan incorporated folic acid gel possessing the characteristics of dye and metal ion absorption. <i>Journal of Materials Chemistry</i> , 2012, 22, 20291. | 6.7 | 75 |
| 11 | Cobalt Oxide/Reduced Graphene Oxide Composite with Enhanced Electrochemical Supercapacitance Performance. <i>Bulletin of the Chemical Society of Japan</i> , 2017, 90, 955-962. | 2.0 | 72 |
| 12 | Intentional Closing/Opening of "Hole-in-Cube" Fullerene Crystals with Microscopic Recognition Properties. <i>ACS Nano</i> , 2017, 11, 7790-7796. | 7.3 | 68 |
| 13 | Self-sustaining, fluorescent and semi-conducting co-assembled organogel of Fmoc protected phenylalanine with aromatic amines. <i>Soft Matter</i> , 2012, 8, 7436. | 1.2 | 60 |
| 14 | Mesoporous fullerene C ₇₀ cubes with highly crystalline frameworks and unusually enhanced photoluminescence properties. <i>Materials Horizons</i> , 2018, 5, 285-290. | 6.4 | 59 |
| 15 | Phase selective organogel from an imine based gelator for use in oil spill recovery. <i>Journal of Materials Chemistry A</i> , 2019, 7, 381-392. | 5.2 | 59 |
| 16 | Nanoporous Activated Carbons Derived from Agro-Waste Corncob for Enhanced Electrochemical and Sensing Performance. <i>Bulletin of the Chemical Society of Japan</i> , 2015, 88, 1108-1115. | 2.0 | 57 |
| 17 | Quasi 2D Mesoporous Carbon Microbelts Derived from Fullerene Crystals as an Electrode Material for Electrochemical Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 44458-44465. | 4.0 | 57 |
| 18 | pH and anion sensitive silver(i) coordinated melamine hydrogel with dye absorbing properties: metastability at low melamine concentration. <i>Journal of Materials Chemistry</i> , 2011, 21, 11747. | 6.7 | 56 |

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|----|--|-----|-----------|
| 19 | Improved Mechanical and Electronic Properties of Co-assembled Folic Acid Gel with Aniline and Polyaniline. ACS Applied Materials & Interfaces, 2014, 6, 3615-3622. | 4.0 | 56 |
| 20 | Light induced E ^Z isomerization in a multi-responsive organogel: elucidation from ¹ H NMR spectroscopy. Chemical Communications, 2015, 51, 10680-10683. | 2.2 | 53 |
| 21 | Bicomponent Hydrogels of Lumichrome and Melamine: Photoluminescence Property and Its Dependency on pH and Temperature. Journal of Physical Chemistry B, 2010, 114, 11454-11461. | 1.2 | 49 |
| 22 | Selective colorimetric sensing of mercury(II) using turn off ^{off} turn on mechanism from riboflavin stabilized silver nanoparticles in aqueous medium. Analyst, The, 2011, 136, 3605. | 1.7 | 48 |
| 23 | Variation of physical and mechanical properties in the bicomponent hydrogels of melamine with positional isomers of hydroxybenzoic acid. Soft Matter, 2011, 7, 8067. | 1.2 | 36 |
| 24 | Co-Assembled Conductive Hydrogel of <i>N</i> -Fluorenylmethoxycarbonyl Phenylalanine with Polyaniline. Journal of Physical Chemistry B, 2014, 118, 13969-13980. | 1.2 | 35 |
| 25 | Integration of Poly(ethylene glycol) in <i>N</i> -Fluorenylmethoxycarbonyl-tryptophan Hydrogel Influencing Mechanical, Thixotropic, and Release Properties. Journal of Physical Chemistry B, 2015, 119, 5933-5944. | 1.2 | 34 |
| 26 | A light harvesting Bi-component hydrogel with a riboflavin acceptor. Chemical Communications, 2012, 48, 10850. | 2.2 | 33 |
| 27 | A thixotropic supramolecular hydrogel of adenine and riboflavin-5 ² -phosphate sodium salt showing enhanced fluorescence properties. Soft Matter, 2014, 10, 5114. | 1.2 | 29 |
| 28 | Metastability in a bi-component hydrogel of thymine and 6-methyl-1,3,5-triazine-2,4-diamine: ultrasound induced vs. thermo gelation. Soft Matter, 2012, 8, 2366. | 1.2 | 28 |
| 29 | Rheological and fluorescent properties of riboflavin ^{off} poly(N-isopropylacrylamide) hybrid hydrogel with a potentiality of forming Ag nanoparticle. RSC Advances, 2014, 4, 54684-54693. | 1.7 | 28 |
| 30 | A Co-assembled Gel of a Pyromellitic Dianhydride Derivative and Polyaniline with Optoelectronic and Photovoltaic Properties. Langmuir, 2014, 30, 7547-7555. | 1.6 | 28 |
| 31 | Triarylamine ^{off} Cored Dendritic Molecular Gel for Efficient Colorimetric, Fluorometric, and Impedometric Detection of Picric Acid. Chemistry - A European Journal, 2018, 24, 5591-5600. | 1.7 | 28 |
| 32 | Hierarchical Assembly of MnO ₂ Nanosheet on CuCo ₂ O ₄ Nanoflake over Fabric Scaffold for Symmetric Supercapacitor. ACS Applied Nano Materials, 2021, 4, 1420-1433. | 2.4 | 24 |
| 33 | Amalgamation of MnWO ₄ nanorods with amorphous carbon nanotubes for highly stabilized energy efficient supercapacitor electrodes. Dalton Transactions, 2021, 50, 5327-5341. | 1.6 | 23 |
| 34 | Bi-component hydrogel of perylene-3,4,9,10-tetracarboxylic potassium salt and <i>l</i> -tyrosine. RSC Advances, 2012, 2, 264-272. | 1.7 | 20 |
| 35 | Hierarchical Nanocomposites by Oligomer-Initiated Controlled Polymerization of Aniline on Graphene Oxide Sheets for Energy Storage. ACS Applied Nano Materials, 2020, 3, 1693-1705. | 2.4 | 20 |
| 36 | Sensing of Hg ²⁺ and Ag ⁺ through a pH dependent FRET system: Fabrication of molecular logic gates. Sensors and Actuators B: Chemical, 2014, 193, 349-355. | 4.0 | 19 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Electrochemical Performance of 3D Network CsPbBr ₃ Perovskite Anodes for Li-Ion Batteries: Experimental Venture with Theoretical Expedition. <i>Journal of Physical Chemistry C</i> , 2021, 125, 16892-16902. | 1.5 | 18 |
| 38 | Nanoengineering of a Supramolecular Gel by Copolymer Incorporation: Enhancement of Gelation Rate, Mechanical Property, Fluorescence, and Conductivity. <i>Langmuir</i> , 2016, 32, 1871-1880. | 1.6 | 17 |
| 39 | Low-temperature synthesis of copper oxide (CuO) nanostructures with temperature-controlled morphological variations. <i>Ceramics International</i> , 2015, 41, 9426-9432. | 2.3 | 16 |
| 40 | A Comparative Account of the Kinetics of Light-Induced E ⁺ Z ⁻ Isomerization of an Anthracene-Based Organogelator in Sol, Gel, Xerogel, and Powder States: Fiber to Crystal Transformation. <i>Langmuir</i> , 2016, 32, 5373-5382. | 1.6 | 16 |
| 41 | Stimuli-responsive, thixotropic bicomponent hydrogel of melamine-Zn(II)-orotate complex. <i>Supramolecular Chemistry</i> , 2013, 25, 335-343. | 1.5 | 14 |
| 42 | Isomerization-Induced Excimer Formation of Pyrene-Based Acylhydrazone Controlled by Light- and Solvent-Sensing Aromatic Analytes. <i>Journal of Physical Chemistry B</i> , 2021, 125, 13804-13816. | 1.2 | 12 |
| 43 | A robust stimuli responsive Eu ³⁺ Metalo organic hydrogel and xerogel emitting white light. <i>Journal of Colloid and Interface Science</i> , 2020, 579, 531-540. | 5.0 | 10 |
| 44 | Shape-Shifting via Salt Crystallization: Conversion of a Nanostructured Polymer into a Site-Selective Nitrogen-Doped Carbon Sheet with Enhanced Supercapacitive Performance. <i>ACS Applied Energy Materials</i> , 2020, 3, 5984-5992. | 2.5 | 10 |
| 45 | Nanoporous nitrogen-doped graphitic carbon hollow spheres with enhanced electrochemical properties. <i>Materials Chemistry Frontiers</i> , 2021, 5, 7645-7653. | 3.2 | 9 |
| 46 | Vortex-Aligned Ordered Film of Crystalline Fullerene C ₇₀ Microtubes with Enhanced Photoluminescence and Photovoltaics Properties. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 2971-2978. | 0.9 | 8 |
| 47 | 1D materials from ionic self-assembly in mixtures containing chromonic liquid crystal mesogens. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 23276-23285. | 1.3 | 4 |
| 48 | Eigenvalue-eigenvector decomposition (EED) analysis of dissimilarity and covariance matrix obtained from total synchronous fluorescence spectral (TSFS) data sets of herbal preparations: Optimizing the classification approach. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 184, 128-133. | 2.0 | 3 |
| 49 | A New Generation Co-Assembled Small Molecular Gel with Polyaniline: Exciting Mechanical, Electronic and Photovoltaic Properties. <i>Macromolecular Symposia</i> , 2016, 359, 118-123. | 0.4 | 0 |