

# Moumita Kotal

## List of Publications by Year in descending order

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33  
papers

1,896  
citations

257101

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docs citations

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times ranked

2859  
citing authors

#	ARTICLE	IF	CITATIONS
1	Polymer nanocomposites from modified clays: Recent advances and challenges. <i>Progress in Polymer Science</i> , 2015, 51, 127-187.	11.8	475
2	<b>Sulfur and Nitrogen Co-doped Graphene Electrodes for High-performance Ionic Artificial Muscles</b>. <i>Advanced Materials</i> , 2016, 28, 1610-1615.	11.1	177
3	Polyaniline-carbon Nanofiber Composite by a Chemical Grafting Approach and Its Supercapacitor Application. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 8374-8386.	4.0	119
4	Thermoplastic polyurethane and nitrile butadiene rubber blends with layered double hydroxide nanocomposites by solution blending. <i>Polymer International</i> , 2010, 59, 2-10.	1.6	90
5	Multifunctional Hybrid Materials Based on Carbon Nanotube Chemically Bonded to Reduced Graphene Oxide. <i>Journal of Physical Chemistry C</i> , 2013, 117, 25865-25875.	1.5	75
6	Self-assembly and morphological control of three-dimensional macroporous architectures built of two-dimensional materials. <i>Nano Today</i> , 2017, 14, 100-123.	6.2	69
7	Sulfur and nitrogen co-doped holey graphene aerogel for structurally resilient solid-state supercapacitors under high compressions. <i>Journal of Materials Chemistry A</i> , 2017, 5, 17253-17266.	5.2	68
8	Synthesis and characterization of polyurethane/Mg-Al layered double hydroxide nanocomposites. <i>Journal of Applied Polymer Science</i> , 2009, 114, 2691-2699.	1.3	63
9	Soft but Powerful Artificial Muscles Based on 3D Graphene-carbon Nanotube-Ni Heteronanostructures. <i>Small</i> , 2017, 13, 1701314.	5.2	60
10	Collectively Exhaustive Electrodes Based on Covalent Organic Framework and Antagonistic Co-doping for Electroactive Ionic Artificial Muscles. <i>Advanced Functional Materials</i> , 2019, 29, 1900161.	7.8	56
11	Functionalized graphene with polymer as unique strategy in tailoring the properties of bromobutyl rubber nanocomposites. <i>Polymer</i> , 2016, 82, 121-132.	1.8	55
12	Functionally Antagonistic Hybrid Electrode with Hollow Tubular Graphene Mesh and Nitrogen-doped Crumpled Graphene for High-performance Ionic Soft Actuators. <i>Advanced Functional Materials</i> , 2018, 28, 1705714.	7.8	51
13	Highly Bendable Ionic Soft Actuator Based on Nitrogen-enriched 3D Hetero-nanostructure Electrode. <i>Advanced Functional Materials</i> , 2018, 28, 1802464.	7.8	51
14	Enhancements in Conductivity and Thermal Stabilities of Polypyrrole/Polyurethane Nanoblends. <i>Journal of Physical Chemistry C</i> , 2011, 115, 1496-1505.	1.5	47
15	Mechanochemical Synthesis of a New Triptycene-Based Imine-Linked Covalent Organic Polymer for Degradation of Organic Dye. <i>Crystal Growth and Design</i> , 2019, 19, 2525-2530.	1.4	46
16	Synergistic effect of organomodification and isocyanate grafting of layered double hydroxide in reinforcing properties of polyurethane nanocomposites. <i>Journal of Materials Chemistry</i> , 2011, 21, 18540.	6.7	35
17	Coordination Polymers Containing Tubular, Layered, and Diamondoid Networks: Redox, Luminescence, and Electron Paramagnetic Resonance Activities. <i>Crystal Growth and Design</i> , 2015, 15, 5604-5613.	1.4	35
18	Defect engineering route to boron nitride quantum dots and edge-hydroxylated functionalization for bio-imaging. <i>RSC Advances</i> , 2016, 6, 73939-73946.	1.7	34

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19	Morphology and properties of stearateâ€intercalated layered double hydroxide nanoplateletâ€reinforced thermoplastic polyurethane. <i>Polymer International</i> , 2011, 60, 772-780.	1.6	32
20	Electroionic Antagonistic Muscles Based on Nitrogenâ€Doped Carbons Derived from Poly(Triazineâ€Triptycene). <i>Advanced Science</i> , 2017, 4, 1700410.	5.6	30
21	Graphene-Templated Cobalt Nanoparticle Embedded Nitrogen-Doped Carbon Nanotubes for Efficient Visible-Light Photocatalysis. <i>Crystal Growth and Design</i> , 2020, 20, 4627-4639.	1.4	30
22	Electroactive Artificial Muscles Based on Functionally Antagonistic Coreâ€Shell Polymer Electrolyte Derived from PSâ€i>b</i>â€PSS Block Copolymer. <i>Advanced Science</i> , 2019, 6, 1801196.	5.6	29
23	Recent Progress in Multifunctional Graphene Aerogels. <i>Frontiers in Materials</i> , 2016, 3, .	1.2	28
24	Metalâ€Organic Frameworkâ€Derived Graphitic Nanoribbons Anchored on Graphene for Electroionic Artificial Muscles. <i>Advanced Functional Materials</i> , 2020, 30, 1910326.	7.8	27
25	Nanohole-structured, iron oxide-decorated and gelatin-functionalized graphene for high rate and high capacity Li-Ion anode. <i>Carbon</i> , 2017, 119, 355-364.	5.4	26
26	Cathode materials for rechargeable lithium batteries: Recent progress and future prospects. <i>Journal of Energy Storage</i> , 2022, 47, 103534.	3.9	25
27	Layered Double Hydroxide as Nanofiller in the Development of Polyurethane Nanocomposites. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 5730-5740.	0.9	22
28	Structureâ€property relationship of polyurethane/modified magnesium aluminium layered double hydroxide nanocomposites. <i>International Journal of Plastics Technology</i> , 2011, 15, 61-68.	2.9	14
29	Preparation and properties of inâ€situ polymerized polyurethane/stearate intercalated layer double hydroxide nanocomposites. <i>Polymer International</i> , 2013, 62, 728-735.	1.6	10
30	Fabrication of Gold Nanoparticle Assembled Polyurethane Microsphere Template in Trypsin Immobilization. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 10149-10157.	0.9	8
31	Electroionic Artificial Muscles: Metalâ€Organic Frameworkâ€Derived Graphitic Nanoribbons Anchored on Graphene for Electroionic Artificial Muscles ( <i>Adv. Funct. Mater.</i> 29/2020). <i>Advanced Functional Materials</i> , 2020, 30, 2070195.	7.8	4
32	Artificial Muscles: Electroionic Antagonistic Muscles Based on Nitrogenâ€Doped Carbons Derived from Poly(Triazineâ€Triptycene) ( <i>Adv. Sci.</i> 12/2017). <i>Advanced Science</i> , 2017, 4, 1770062.	5.6	2
33	Actuators: Functionally Antagonistic Hybrid Electrode with Hollow Tubular Graphene Mesh and Nitrogenâ€Doped Crumpled Graphene for Highâ€Performance Ionic Soft Actuators ( <i>Adv. Funct. Mater.</i> ) Tj ETQq1 170784314rgBT /Ove		