

# Rajendra Kurapati

## List of Publications by Year in descending order

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Version: 2024-02-01

24  
papers

1,540  
citations

471509

17  
h-index

580821

25  
g-index

25  
all docs

25  
docs citations

25  
times ranked

3101  
citing authors

#	ARTICLE	IF	CITATIONS
1	Biomedical Uses for 2D Materials Beyond Graphene: Current Advances and Challenges Ahead. <i>Advanced Materials</i> , 2016, 28, 6052-6074.	21.0	335
2	Dispersibility-Dependent Biodegradation of Graphene Oxide by Myeloperoxidase. <i>Small</i> , 2015, 11, 3985-3994.	10.0	215
3	Degradation of Single-Layer and Few-Layer Graphene by Neutrophil Myeloperoxidase. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 11722-11727.	13.8	135
4	Near-infrared light-responsive graphene oxide composite multilayer capsules: a novel route for remote controlled drug delivery. <i>Chemical Communications</i> , 2013, 49, 734-736.	4.1	117
5	Enzymatic Biodegradability of Pristine and Functionalized Transition Metal Dichalcogenide MoS <sub>2</sub> Nanosheets. <i>Advanced Functional Materials</i> , 2017, 27, 1605176.	14.9	109
6	Graphene oxide based multilayer capsules with unique permeability properties: facile encapsulation of multiple drugs. <i>Chemical Communications</i> , 2012, 48, 6013.	4.1	68
7	White Graphene undergoes Peroxidase Degradation. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 5506-5511.	13.8	67
8	Covalent chemical functionalization enhances the biodegradation of graphene oxide. <i>2D Materials</i> , 2018, 5, 015020.	4.4	63
9	Degradation-by-design: Surface modification with functional substrates that enhance the enzymatic degradation of carbon nanotubes. <i>Biomaterials</i> , 2015, 72, 20-28.	11.4	61
10	Degradation-by-design: how chemical functionalization enhances the biodegradability and safety of 2D materials. <i>Chemical Society Reviews</i> , 2020, 49, 6224-6247.	38.1	61
11	Recent Developments in Layer-by-Layer Technique for Drug Delivery Applications. <i>ACS Applied Bio Materials</i> , 2019, 2, 5512-5527.	4.6	59
12	Composite cyclodextrin-calcium carbonate porous microparticles and modified multilayer capsules: novel carriers for encapsulation of hydrophobic drugs. <i>Journal of Materials Chemistry B</i> , 2013, 1, 3175.	5.8	56
13	Synergistic photothermal antimicrobial therapy using graphene oxide/polymer composite layer-by-layer thin films. <i>RSC Advances</i> , 2016, 6, 39852-39860.	3.6	46
14	Biodegradation of graphene materials catalyzed by human eosinophil peroxidase. <i>Faraday Discussions</i> , 2021, 227, 189-203.	3.2	30
15	Cyclodextrin grafted calcium carbonate vaterite particles: efficient system for tailored release of hydrophobic anticancer or hormone drugs. <i>RSC Advances</i> , 2016, 6, 104537-104548.	3.6	22
16	Peroxidase mimicking DNAzymes degrade graphene oxide. <i>Nanoscale</i> , 2018, 10, 19316-19321.	5.6	22
17	White Graphene undergoes Peroxidase Degradation. <i>Angewandte Chemie</i> , 2016, 128, 5596-5601.	2.0	19
18	Fluorescence Enhancement in Langmuir-Blodgett Films: Role of Amphiphile Structure, Orientation, and Assembly. <i>Journal of Physical Chemistry B</i> , 2010, 114, 849-856.	2.6	14

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19	Degradation of Single-Layer and Few-Layer Graphene by Neutrophil Myeloperoxidase. <i>Angewandte Chemie</i> , 2018, 130, 11896-11901.	2.0	9
20	Dual Drug Conjugate Loaded Nanoparticles for the Treatment of Cancer. <i>Current Drug Delivery</i> , 2015, 12, 782-794.	1.6	9
21	Facile synthesis of Graphene Oxide/Double-stranded DNA composite liquid crystals and Hydrogels. <i>Journal of Chemical Sciences</i> , 2016, 128, 325-330.	1.5	8
22	Additive-free Aqueous Dispersions of Two-Dimensional Materials with Glial Cell Compatibility and Enzymatic Degradability. <i>Chemistry - A European Journal</i> , 2021, 27, 7434-7443.	3.3	5
23	Advanced protection against environmental degradation of silver mirror stacks for space application. <i>Journal of Materials Science and Technology</i> , 2021, 64, 1-9.	10.7	3
24	Editorial: Nanobiophotonics and Related Novel Materials Aimed at Biosciences and Biomedicine. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022, 10, 898752.	4.1	1