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Covalent chemical functionalization enhances the biodegradation of graphene oxide

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#	Paper	IF	Citations
55	A carbon science perspective in 2018: Current achievements and future challenges. <i>Carbon</i> , 2018 , 132, 785-801	10.4	59
54	Biomedical Applications of Graphene-Based Structures. <i>Nanomaterials</i> , 2018 , 8,	5.4	110
53	Safety Assessment of Graphene-Based Materials: Focus on Human Health and the Environment. <i>ACS Nano</i> , 2018 , 12, 10582-10620	16.7	292
52	Interface Characterization and Control of 2D Materials and Heterostructures. <i>Advanced Materials</i> , 2018 , 30, e1801586	24	85
51	"Smart" chemistry and its application in peroxidase immobilization using different support materials. <i>International Journal of Biological Macromolecules</i> , 2018 , 119, 278-290	7.9	111
50	A review on 2D materials for bio-applications. <i>Materials Today: Proceedings</i> , 2019 , 19, 380-383	1.4	7
49	A Biodegradable Multifunctional Graphene Oxide Platform for Targeted Cancer Therapy. <i>Advanced Functional Materials</i> , 2019 , 29, 1901761	15.6	30
48	Phosphate modified graphene oxide: Long-term biodegradation and cytocompatibility. <i>Carbon</i> , 2019 , 154, 342-349	10.4	10
47	Functionalization of zigzag graphene nanoribbon with DNA nucleobases-A DFT study. <i>Applied Surface Science</i> , 2019 , 496, 143667	6.7	2
46	When polymers meet carbon nanostructures: expanding horizons in cancer therapy. <i>Future Medicinal Chemistry</i> , 2019 , 11, 2205-2231	4.1	6
45	A Composite of Hyaluronic Acid-Modified Graphene Oxide and Iron Oxide Nanoparticles for Targeted Drug Delivery and Magnetothermal Therapy. <i>ACS Omega</i> , 2019 , 4, 9284-9293	3.9	34
44	Biocompatibility and biodegradability of 2D materials: graphene and beyond. <i>Chemical Communications</i> , 2019 , 55, 5540-5546	5.8	108
43	Injectable amine functionalized graphene and chondroitin sulfate hydrogel with potential for cartilage regeneration. <i>Journal of Materials Chemistry B</i> , 2019 , 7, 2442-2453	7.3	21
42	Preparation and microwave absorption properties of Nanomesh Poly (3,4-ethylenedioxythiophene) covalently functionalized graphene oxide. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 5273-5283	2.1	4
41	Biodegradation of graphene-based nanomaterials in blood plasma affects their biocompatibility, drug delivery, targeted organs and antitumor ability. <i>Biomaterials</i> , 2019 , 202, 12-25	15.6	29
40	3D-Printed PCL/rGO Conductive Scaffolds for Peripheral Nerve Injury Repair. <i>Artificial Organs</i> , 2019 , 43, 515-523	2.6	58
39	Fungal transformation of graphene by white rot fungus <i>Phanerochaete chrysosporium</i> . <i>Chemosphere</i> , 2019 , 216, 9-18	8.4	24

38	Functional Graphenic Materials, Graphene Oxide, and Graphene as Scaffolds for Bone Regeneration. <i>Regenerative Engineering and Translational Medicine</i> , 2019 , 5, 190-209	2.4	27
37	2D Nanomaterials for Cancer Theranostic Applications. <i>Advanced Materials</i> , 2020 , 32, e1902333	24	193
36	Osseointegration of Antimicrobial Acrylic Bone Cements Modified with Graphene Oxide and Chitosan. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 6528	2.6	4
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33	In vivo self-degradable graphene nanomedicine operated by DNAzyme and photo-switch for controlled anticancer therapy. <i>Biomaterials</i> , 2020 , 263, 120402	15.6	12
32	The Role of Chitosan and Graphene Oxide in Bioactive and Antibacterial Properties of Acrylic Bone Cements. <i>Biomolecules</i> , 2020 , 10,	5.9	6
31	Toxicity of graphene based nanomaterials: a general overview of origin, exposure and mechanisms. <i>Comprehensive Analytical Chemistry</i> , 2020 , 281-325	1.9	3
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14	Biodegradation of graphene materials catalyzed by human eosinophil peroxidase. <i>Faraday Discussions</i> , 2021 , 227, 189-203	3.6	12
13	Coupling of short DNAs with reduced graphene oxide for electronic and sensing applications. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2020 , 28, 526-532	1.8	2
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9	Graphene and graphene-based materials in axonal repair of spinal cord injury.. <i>Neural Regeneration Research</i> , 2022 , 17, 2117-2125	4.5	0
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7	Graphene oxide conjugated with doxorubicin: synthesis, bioactivity, and biosafety. <i>Journal of Molecular Liquids</i> , 2022 , 119156	6	1
6	Ultra-low binder content 3D printed calcium phosphate graphene scaffolds as resorbable, osteoinductive matrices that support bone formation in vivo.. <i>Scientific Reports</i> , 2022 , 12, 6960	4.9	1
5	Ball Milled Glyco-graphene oxide conjugates markedly disrupted <i>Pseudomonas aeruginosa</i> biofilm. <i>Nanoscale</i> ,	7.7	1
4	Electrically Conductive 2D Material Coatings for Flexible and Stretchable Electronics: A Comparative Review of Graphenes and MXenes. <i>Advanced Functional Materials</i> , 2204772	15.6	3
3	Cellular and subcellular interactions of graphene-based materials with cancerous and non-cancerous cells. 2022 , 189, 114467		2

- 2 Graphene Family Nanomaterials for Stem Cell Neurogenic Differentiation and Peripheral Nerve Regeneration. ○
- 1 Environmentally sustainable implementations of two-dimensional nanomaterials. 11, ○