

# Jacek K Wychowaniec

## List of Publications by Year in descending order

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29  
papers

864  
citations

623188

14  
h-index

525886

27  
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29  
docs citations

29  
times ranked

1251  
citing authors

#	ARTICLE	IF	CITATIONS
1	Biomedical Applications of Graphene-Based Structures. <i>Nanomaterials</i> , 2018, 8, 944.	1.9	168
2	Graphene oxide: A growth factor delivery carrier to enhance chondrogenic differentiation of human mesenchymal stem cells in 3D hydrogels. <i>Acta Biomaterialia</i> , 2019, 96, 271-280.	4.1	100
3	Graphene oxide containing self-assembling peptide hybrid hydrogels as a potential 3D injectable cell delivery platform for intervertebral disc repair applications. <i>Acta Biomaterialia</i> , 2019, 92, 92-103.	4.1	81
4	Cytotoxicity Assessment of Ti <sub>3</sub> AlC <sub>2</sub> Based MAX Phases and Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXenes on Human Fibroblasts and Cervical Cancer Cells. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 6557-6569.	2.6	65
5	Designing Peptide/Graphene Hybrid Hydrogels through Fine-Tuning of Molecular Interactions. <i>Biomacromolecules</i> , 2018, 19, 2731-2741.	2.6	64
6	Unique cellular network formation guided by heterostructures based on reduced graphene oxide - Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene hydrogels. <i>Acta Biomaterialia</i> , 2020, 115, 104-115.	4.1	47
7	Role of Sheet-Edge Interactions in $\beta$ -sheet Self-Assembling Peptide Hydrogels. <i>Biomacromolecules</i> , 2020, 21, 2285-2297.	2.6	46
8	Aromatic Stacking Facilitated Self-Assembly of Ultrashort Ionic Complementary Peptide Sequence: $\beta$ -Sheet Nanofibers with Remarkable Gelation and Interfacial Properties. <i>Biomacromolecules</i> , 2020, 21, 2670-2680.	2.6	44
9	Functional hydrogels as therapeutic tools for spinal cord injury: New perspectives on immunopharmacological interventions. , 2022, 234, 108043.		33
10	Effect of crosslinking strategy on the biological, antibacterial and physicochemical performance of hyaluronic acid and E-polylysine based hydrogels. <i>International Journal of Biological Macromolecules</i> , 2022, 208, 995-1008.	3.6	28
11	Controlling Doxorubicin Release from a Peptide Hydrogel through Fine-Tuning of Drug-Peptide Fiber Interactions. <i>Biomacromolecules</i> , 2022, 23, 2624-2634.	2.6	26
12	UV cross-linked polyvinylpyrrolidone electrospun fibres as antibacterial surfaces. <i>Science and Technology of Advanced Materials</i> , 2019, 20, 979-991.	2.8	22
13	Spatiotemporally Resolved Heat Dissipation in 3D Patterned Magnetically Responsive Hydrogels. <i>Small</i> , 2021, 17, e2004452.	5.2	20
14	Fabricating versatile cell supports from nano- and micro-sized graphene oxide flakes. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 103, 103594.	1.5	19
15	Elastic flow instabilities and macroscopic textures in graphene oxide lyotropic liquid crystals. <i>Npj 2D Materials and Applications</i> , 2021, 5, .	3.9	18
16	Unraveling Origins of EPR Spectrum in Graphene Oxide Quantum Dots. <i>Nanomaterials</i> , 2020, 10, 798.	1.9	13
17	Synthesis, characterization and in vitro cytotoxicity studies of poly-N-isopropyl acrylamide gel nanoparticles and films. <i>Materials Science and Engineering C</i> , 2021, 118, 111507.	3.8	13
18	Groove-patterned surfaces induce morphological changes in cells of neuronal origin. <i>Journal of Biomedical Materials Research - Part A</i> , 2019, 107, 2244-2256.	2.1	12

#	ARTICLE	IF	CITATIONS
19	Graphene oxide modulates inter-particle interactions in 3D printable soft nanocomposite hydrogels restoring magnetic hyperthermia responses. <i>Journal of Colloid and Interface Science</i> , 2022, 611, 533-544.	5.0	10
20	Designing biocompatible spin-coated multiwall carbon nanotubes-polymer composite coatings. <i>Surface and Coatings Technology</i> , 2020, 385, 125199.	2.2	9
21	The UCD nanosafety workshop (03 December 2018): towards developing a consensus on safe handling of nanomaterials within the Irish university labs and beyond – a report. <i>Nanotoxicology</i> , 2019, 13, 717-732.	1.6	6
22	Closed timelike curves and the second law of thermodynamics. <i>Physical Review A</i> , 2019, 99, .	1.0	4
23	Cytotoxicity of versatile nano-micro-particles based on hierarchical flower-like ZnO. <i>Advanced Powder Technology</i> , 2020, 31, 393-401.	2.0	4
24	Tuning Properties of Partially Reduced Graphene Oxide Fibers upon Calcium Doping. <i>Nanomaterials</i> , 2020, 10, 957.	1.9	4
25	Quantitative nanomechanical properties evaluation of a family of $\beta$ -sheet peptide fibres using rapid bimodal AFM. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021, 124, 104776.	1.5	3
26	Current concepts for tissue transplant services for developing countries. <i>Cell and Tissue Banking</i> , 2021, 22, 323-337.	0.5	2
27	Influence of thermochemical reduction on magnetic properties of reduced graphene oxide aerogels. <i>Journal of Physics and Chemistry of Solids</i> , 2021, 151, 109898.	1.9	2
28	Compaction of cereal grain. <i>Philosophical Magazine</i> , 2013, 93, 4151-4158.	0.7	1
29	Magnetic Hydrogels: Spatiotemporally Resolved Heat Dissipation in 3D Patterned Magnetically Responsive Hydrogels ( <i>Small</i> 5/2021). <i>Small</i> , 2021, 17, 2170018.	5.2	0