Dusan Losic

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365 papers	16,791 citations	71 h-index	111 g-index
394 ext. papers	19,266 ext. citations	6.7 avg, IF	7.25 L-index

#	Paper	IF	Citations
365	Graphene and graphene oxide as new nanocarriers for drug delivery applications. *Acta Biomaterialia*, **2013**, 9, 9243-57	10.8	865
364	Protein electrochemistry using aligned carbon nanotube arrays. *Journal of the American Chemical Society*, **2003**, 125, 9006-7	16.4	773
363	Nanoporous anodic aluminium oxide: Advances in surface engineering and emerging applications. *Progress in Materials Science*, **2013**, 58, 636-704	42.2	386
362	The Glass Menagerie: diatoms for novel applications in nanotechnology. *Trends in Biotechnology*, **2009**, 27, 116-27	15.1	309
361	Diatomaceous Lessons in Nanotechnology and Advanced Materials. *Advanced Materials*, **2009**, 21, 2947-2958	24	296
360	Outstanding adsorption performance of graphene–carbon nanotube aerogels for continuous oil removal. *Carbon*, **2014**, 80, 523-533	10.4	281
359	Biocompatible polymer coating of titania nanotube arrays for improved drug elution and osteoblast adhesion. *Acta Biomaterialia*, **2012**, 8, 449-56	10.8	211
358	Graphene: a multipurpose material for protective coatings. *Journal of Materials Chemistry A*, **2015**, 3, 12580-12602	13	201
357	Robust Superhydrophobic Graphene-Based Composite Coatings with Self-Cleaning and Corrosion Barrier Properties. *ACS Applied Materials & Interfaces*, **2015**, 7, 28482-93	9.5	186
356	Self-ordered nanopore and nanotube platforms for drug delivery applications. *Expert Opinion on Drug Delivery*, **2009**, 6, 1363-81	8	179
355	Nanoporous anodic aluminum oxide for chemical sensing and biosensors. *TrAC - Trends in Analytical Chemistry*, **2013**, 44, 25-38	14.6	177
354	Tailoring the surface functionalities of titania nanotube arrays. *Biomaterials*, **2010**, 31, 532-40	15.6	167
353	Surface functionalisation of diatoms with dopamine modified iron-oxide nanoparticles: toward magnetically guided drug microcarriers with biologically derived morphologies. *Chemical Communications*, **2010**, 46, 6323-5	5.8	162
352	Recent Advances in Sensing Applications of Graphene Assemblies and Their Composites. *Advanced Functional Materials*, **2017**, 27, 1702891	15.6	161
351	Nanoparticles for pest control: current status and future perspectives. *Journal of Pest Science*, **2018**, 91, 1-15	5.5	157
350	Graphene-Diatom Silica Aerogels for Efficient Removal of Mercury Ions from Water. *ACS Applied Materials & Interfaces*, **2015**, 7, 11815-23	9.5	155
349	Graphene Aerogels Decorated with α-FeOOH Nanoparticles for Efficient Adsorption of Arsenic from Contaminated Waters. *ACS Applied Materials & Interfaces*, **2015**, 7, 9758-66	9.5	146

348	Pore architecture of diatom frustules: potential nanostructured membranes for molecular and particle separations. *Journal of Nanoscience and Nanotechnology*, **2006**, 6, 982-9	1.3	140
347	Porous alumina with shaped pore geometries and complex pore architectures fabricated by cyclic anodization. *Small*, **2009**, 5, 1392-7	11	138
346	Porous silica microshells from diatoms as biocarrier for drug delivery applications. *Powder Technology*, **2012**, 223, 52-58	5.2	137
345	Controlled drug release from porous materials by plasma polymer deposition. *Chemical Communications*, **2010**, 46, 1317-9	5.8	130
344	A green approach for the reduction of graphene oxide nanosheets using non-aromatic amino acids. *Carbon*, **2014**, 76, 193-202	10.4	123
343	Titania nanotube arrays for local drug delivery: recent advances and perspectives. *Expert Opinion on Drug Delivery*, **2015**, 12, 103-27	8	120
342	Rapid Fabrication of Micro- and Nanoscale Patterns by Replica Molding from Diatom Biosilica. *Advanced Functional Materials*, **2007**, 17, 2439-2446	15.6	120
341	Tuning MnO2 to FeOOH replicas with bio-template 3D morphology as electrodes for high performance asymmetric supercapacitors. *Chemical Engineering Journal*, **2019**, 370, 136-147	14.7	119
340	Applications of graphene in microbial fuel cells: The gap between promise and reality. *Renewable and Sustainable Energy Reviews*, **2017**, 72, 1389-1403	16.2	119
339	Selective adsorption of oil–water mixtures using polydimethylsiloxane (PDMS)–graphene sponges. *Environmental Science: Water Research and Technology*, **2015**, 1, 298-305	4.2	114
338	Influence of dry and wet ball milling on dispersion characteristics of the multi-walled carbon nanotubes in aqueous solution with and without surfactant. *Powder Technology*, **2013**, 234, 132-140	5.2	113
337	Influence of Surface Topography on Alkanethiol SAMs Assembled from Solution and by Microcontact Printing. *Langmuir*, **2001**, 17, 3307-3316	4	112
336	From Graphene Oxide to Reduced Graphene Oxide: Impact on the Physiochemical and Mechanical Properties of Graphene-Cement Composites. *ACS Applied Materials & Interfaces*, **2017**, 9, 43275-43286	9.5	106
335	Nanoporous anodic alumina platforms: engineered surface chemistry and structure for optical sensing applications. *Sensors*, **2014**, 14, 11878-918	3.8	104
334	Synthesis of self-supporting gold microstructures with three-dimensional morphologies by direct replication of diatom templates. *Langmuir*, **2010**, 26, 14068-72	4	104
333	Controlled pore structure modification of diatoms by atomic layer deposition of TiO2. *Journal of Materials Chemistry*, **2006**, 16, 4029		104
332	Tuning drug loading and release properties of diatom silica microparticles by surface modifications. *International Journal of Pharmaceutics*, **2013**, 443, 230-41	6.5	103
331	The effects of the lengths and orientations of single-walled carbon nanotubes on the electrochemistry of nanotube-modified electrodes. *Electrochemistry Communications*, **2007**, 9, 1677-1683	5.1	103

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329	Label-free reflectometric interference microchip biosensor based on nanoporous alumina for detection of circulating tumour cells. *Biosensors and Bioelectronics*, **2012**, 35, 167-173	11.8	100
328	Advanced biopolymer-coated drug-releasing titania nanotubes (TNTs) implants with simultaneously enhanced osteoblast adhesion and antibacterial properties. *Colloids and Surfaces B: Biointerfaces*, **2015**, 130, 255-63	6	99
327	Functionalized diatom silica microparticles for removal of mercury ions. *Science and Technology of Advanced Materials*, **2012**, 13, 015008	7.1	97
326	Preparation of porous anodic alumina with periodically perforated pores. *Langmuir*, **2009**, 25, 5426-31	4	97
325	Carbon Nanomaterial Based Biosensors for Non-Invasive Detection of Cancer and Disease Biomarkers for Clinical Diagnosis. *Sensors*, **2017**, 17,	3.8	96
324	A multi-drug delivery system with sequential release using titania nanotube arrays. *Chemical Communications*, **2012**, 48, 3348-50	5.8	95
323	Recent advances in engineered graphene and composites for detection of volatile organic compounds (VOCs) and non-invasive diseases diagnosis. *Carbon*, **2016**, 110, 97-129	10.4	95
322	Multifunctional Binding Chemistry on Modified Graphene Composite for Selective and Highly Efficient Adsorption of Mercury. *ACS Applied Materials & Interfaces*, **2019**, 11, 6350-6362	9.5	94
321	Wear Debris Characterization and Corresponding Biological Response: Artificial Hip and Knee Joints. *Materials*, **2014**, 7, 980-1016	3.5	93
320	Structural and chemical modification of porous alumina membranes. *Microporous and Mesoporous Materials*, **2009**, 126, 87-94	5.3	90
319	Facile Adhesion-Tuning of Superhydrophobic Surfaces between "Lotus" and "Petal" Effect and Their Influence on Icing and Deicing Properties. *ACS Applied Materials & Interfaces*, **2017**, 9, 8393-8402	9.5	89
318	An overview of nanotoxicity and nanomedicine research: principles, progress and implications for cancer therapy. *Journal of Materials Chemistry B*, **2015**, 3, 7153-7172	7.3	89
317	Nanoporous Anodic Alumina: A Versatile Platform for Optical Biosensors. *Materials*, **2014**, 7, 4297-4320	3.5	89
316	MnO2 nanostructures with three-dimensional (3D) morphology replicated from diatoms for high-performance supercapacitors. *Journal of Materials Chemistry A*, **2015**, 3, 7855-7861	13	88
315	Drug-releasing implants: current progress, challenges and perspectives. *Journal of Materials Chemistry B*, **2014**, 2, 6157-6182	7.3	88
314	Local drug delivery to the bone by drug-releasing implants: perspectives of nano-engineered titania nanotube arrays. *Therapeutic Delivery*, **2012**, 3, 857-73	3.8	87
313	Graphene Oxide-Assisted Liquid Phase Exfoliation of Graphite into Graphene for Highly Conductive Film and Electromechanical Sensors. *ACS Applied Materials & Interfaces*, **2016**, 8, 16521-32	9.5	86

312	Silica microcapsules from diatoms as new carrier for delivery of therapeutics. *Nanomedicine*, **2011**, 6, 1159-73	5.6	85
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310	Non-eroding drug-releasing implants with ordered nanoporous and nanotubular structures: concepts for controlling drug release. *Biomaterials Science*, **2014**, 2, 10-34	7.4	83
309	Structural and optical nanoengineering of nanoporous anodic alumina rugate filters for real-time and label-free biosensing applications. *Analytical Chemistry*, **2014**, 86, 1837-44	7.8	79
308	Graphene oxide decorated diatom silica particles as new nano-hybrids: towards smart natural drug microcarriers. *Journal of Materials Chemistry B*, **2013**, 1, 6302-6311	7.3	79
307	Optical and electrochemical DNA nanobiosensors. *TrAC - Trends in Analytical Chemistry*, **2011**, 30, 459-472	14.6	79
306	Free-standing PEDOT/polyaniline conductive polymer hydrogel for flexible solid-state supercapacitors. *Electrochimica Acta*, **2019**, 322, 134769	6.7	78
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299	Morphology-controlled MnO2 modified silicon diatoms for high-performance asymmetric supercapacitors. *Journal of Materials Chemistry A*, **2017**, 5, 10856-10865	13	72
298	Engineered graphene nanoparticle aerogel composites for efficient removal of phosphate from water. *Journal of Materials Chemistry A*, **2015**, 3, 6844-6852	13	72
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293	Graphene Oxide-Based Lamella Network for Enhanced Sound Absorption. *Advanced Functional Materials*, **2017**, 27, 1703820	15.6	67
292	Dye-sensitized solar cell counter electrodes based on carbon nanotubes. *ChemPhysChem*, **2015**, 16, 53-65	3.2	67
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273	Polymeric micelles for multidrug delivery and combination therapy. *Chemistry - A European Journal*, **2013**, 19, 12586-601	4.8	59
272	Ultrasensitive nanoporous interferometric sensor for label-free detection of gold(III) ions. *ACS Applied Materials & Interfaces*, **2013**, 5, 11783-90	9.5	59
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270	Alpha7-nicotinic acetylcholine receptors mediate an Abeta(1-42)-induced increase in the level of acetylcholinesterase in primary cortical neurones. *Journal of Neurochemistry*, **2004**, 88, 1186-93	6	58
269	3D bioprinting of cell-laden electroconductive MXene nanocomposite bioinks. *Nanoscale*, **2020**, 12, 16069-16080	7.7	55
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255	Advanced Structural Engineering of Nanoporous Photonic Structures: Tailoring Nanopore Architecture to Enhance Sensing Properties. *ACS Photonics*, **2014**, 1, 1298-1306	6.3	50
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245	Diatom Silica for Biomedical Applications: Recent Progress and Advances. *Advanced Healthcare Materials*, **2018**, 7, e1800552	10.1	43
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