

Dusan Losic

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Coupling graphene microribbons with carbon nanofibers: New carbon hybrids for high-performing lithium and potassium-ion batteries. <i>Sustainable Materials and Technologies</i> , 2022 , e00393	5.3	4
364	3D printing interface-modified PDMS/MXene nanocomposites for stretchable conductors. <i>Journal of Materials Science and Technology</i> , 2022 , 117, 174-182	9.1	3
363	Graphene-based multifunctional surface and structure gradients engineered by atmospheric plasma. <i>Applied Materials Today</i> , 2022 , 27, 101486	6.6	2
362	Extrusion-Printed CNT/Graphene Sensor Array with Embedded MXene/PEDOT:PSS Heater for Enhanced NO ₂ Sensing at Low Temperature. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2101175	4.6	0
361	Fractal Design for Advancing the Performance of Chemoresistive Sensors. <i>ACS Sensors</i> , 2021 , 6, 3685-3695	9.5	2
360	Nature inspired emerging sensing technology: Recent progress and perspectives. <i>Materials Science and Engineering Reports</i> , 2021 , 146, 100647	30.9	3
359	Effect of large graphene particle size on structure, optical property and photocatalytic activity of graphene-titanate nanotube composites. <i>Optical Materials</i> , 2021 , 122, 111662	3.3	0
358	Nitrogen-doped carbon-coated nanodiamonds for electrocatalytic applications. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 085303	3	3
357	N-doped reduced graphene oxide-PEDOT nanocomposites for implementation of a flexible wideband antenna for wearable wireless communication applications. <i>Nanotechnology</i> , 2021 , 32,	3.4	2
356	Survey of Synthesis Processes for N-Doped Carbon Dots Assessed by Green Chemistry and Circular and EcoScale Metrics. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 4755-4770	8.3	3
355	Thermogravimetric Analysis (TGA) of Graphene Materials: Effect of Particle Size of Graphene, Graphene Oxide and Graphite on Thermal Parameters. <i>Journal of Carbon Research</i> , 2021 , 7, 41	3.3	11
354	New optofluidic based lab-on-a-chip device for the real-time fluoride analysis. <i>Analytica Chimica Acta</i> , 2021 , 1159, 338439	6.6	13
353	Enhancing the performance and environmental impact of alkali-activated binder-based composites containing graphene oxide and industrial by-products. <i>Construction and Building Materials</i> , 2021 , 284, 122811	6.7	6
352	Advancing of titanium medical implants by surface engineering: recent progress and challenges. <i>Expert Opinion on Drug Delivery</i> , 2021 , 18, 1355-1378	8	9
351	Highly Water Dispersible Functionalized Graphene by Thermal Thiol-Ene Click Chemistry. <i>Materials</i> , 2021 , 14,	3.5	3
350	Magnetic reduced graphene oxide as a nano-vehicle for loading and delivery of curcumin. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021 , 252, 119471	4.4	3
349	Accounting Carbonaceous Counterfeits in Graphene Materials Using the Thermogravimetric Analysis (TGA) Approach. <i>Analytical Chemistry</i> , 2021 , 93, 11859-11867	7.8	2

348	Multiple applications of bio-graphene foam for efficient chromate ion removal and oil-water separation. <i>Chemosphere</i> , 2021 , 263, 127790	8.4	15
347	Bismuth Oxide Films for X-ray shielding: Effects of particle size and structural morphology. <i>Materials Chemistry and Physics</i> , 2021 , 260, 124084	4.4	6
346	Graphene-Based Sorbents for Multipollutants Removal in Water: A Review of Recent Progress. <i>Advanced Functional Materials</i> , 2021 , 31, 2007356	15.6	25
345	Toward on-board microchip synthesis of CdSe vs. PbSe nanocrystalline quantum dots as a spectral decoy for protecting space assets. <i>Reaction Chemistry and Engineering</i> , 2021 , 6, 471-485	4.9	2
344	Metal-organic frameworks containing solid-state electrolytes for lithium metal batteries and beyond. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 1771-1794	7.8	10
343	Graphene ink for 3D extrusion micro printing of chemo-resistive sensing devices for volatile organic compound detection. <i>Nanoscale</i> , 2021 , 13, 5356-5368	7.7	9
342	Advancing of Additive-Manufactured Titanium Implants with Bioinspired Micro- to Nanotopographies. <i>ACS Biomaterials Science and Engineering</i> , 2021 , 7, 441-450	5.5	14
341	Application of graphene in protective coating industry: prospects and current progress 2021 , 453-492		
340	Correction to: Experimental Study on Glass and Polymers: Determining the Optimal Material for Potential Use in Terahertz Technology <i>IEEE Access</i> , 2021 , 9, 2705-2705	3.5	
339	Graphene oxide (GO) decorated on multi-structured porous titania fabricated by plasma electrolytic oxidation (PEO) for enhanced antibacterial performance. <i>Materials and Design</i> , 2021 , 200, 109443	8.1	16
338	Biodegradable and biocompatible graphene-based scaffolds for functional neural tissue engineering: A strategy approach using dental pulp stem cells and biomaterials. <i>Biotechnology and Bioengineering</i> , 2021 , 118, 4217-4230	4.9	5
337	3D bioprinting of a cell-laden antibacterial polysaccharide hydrogel composite. <i>Carbohydrate Polymers</i> , 2021 , 264, 117989	10.3	14
336	Lightweight Bismuth Titanate (Bi ₄ Ti ₃ O ₁₂) Nanoparticle-Epoxy Composite for Advanced Lead-Free X-ray Radiation Shielding. <i>ACS Applied Nano Materials</i> , 2021 , 4, 7471-7478	5.6	4
335	High-yield preparation of edge-functionalized and water dispersible few-layers of hexagonal boron nitride (hBN) by direct wet chemical exfoliation. <i>Nanotechnology</i> , 2021 , 32,	3.4	1
334	Unlocking thermogravimetric analysis (TGA) in the fight against fake graphene materials. <i>Carbon</i> , 2021 , 179, 505-513	10.4	17
333	Graphene-Based Nanomembranes for Sustainable Water Purification Applications 2021 , 1-31		
332	Converging 2D Nanomaterials and 3D Bioprinting Technology: State-of-the-Art, Challenges, and Potential Outlook in Biomedical Applications. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2101439	10.1	2
331	Comparative antibacterial activity of 2D materials coated on porous-titania. <i>Journal of Materials Chemistry B</i> , 2021 , 9, 6412-6424	7.3	2

330	Advancing of 3D-Printed Titanium Implants with Combined Antibacterial Protection Using Ultrasharp Nanostructured Surface and Gallium-Releasing Agents.. <i>ACS Biomaterials Science and Engineering</i> , 2021 ,	5.5	2
329	Fast response hydrogen gas sensor based on Pd/Cr nanogaps fabricated by a single-step bending deformation. <i>Analytica Chimica Acta</i> , 2020 , 1138, 49-58	6.6	3
328	Removal of Multiple Water Pollutants: All-in-One Bioinspired Multifunctional Graphene Biopolymer Foam for Simultaneous Removal of Multiple Water Pollutants (Adv. Mater. Interfaces 18/2020). <i>Advanced Materials Interfaces</i> , 2020 , 7, 2070103	4.6	1
327	Multithiol functionalized graphene bio-sponge via photoinitiated thiol-ene click chemistry for efficient heavy metal ions adsorption. <i>Chemical Engineering Journal</i> , 2020 , 395, 124965	14.7	43
326	Nitrogen-doped phosphorene for electrocatalytic ammonia synthesis. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 15875-15883	13	50
325	Perspectives on plasma-assisted synthesis of N-doped nanoparticles as nanopesticides for pest control in crops. <i>Reaction Chemistry and Engineering</i> , 2020 , 5, 1374-1396	4.9	9
324	Engineering MIL-100(Fe) on 3D porous natural diatoms as a versatile high performing platform for controlled isoniazid drug release, Fenton [®] catalysis for malachite green dye degradation and environmental adsorbents for Pb ²⁺ removal and dyes. <i>Applied Surface Science</i> , 2020 , 528, 146974	6.7	41
323	3D printing of cell-laden electroconductive bioinks for tissue engineering applications. <i>Journal of Materials Chemistry B</i> , 2020 , 8, 5862-5876	7.3	34
322	3D bioprinting of cell-laden electroconductive MXene nanocomposite bioinks. <i>Nanoscale</i> , 2020 , 12, 16069-16080	7.7	35
321	Engineered Phosphate Fertilizers with Dual-Release Properties. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 5512-5524	3.9	7
320	Enhancement of dielectric and ferroelectric properties in flexible polymer for energy storage applications. <i>Ceramics International</i> , 2020 , 46, 24649-24660	5.1	3
319	Graphene and molybdenum disulphide hybrids for energy applications: an update. <i>Materials Today Advances</i> , 2020 , 6, 100053	7.4	18
318	Surface oxidized two-dimensional antimonene nanosheets for electrochemical ammonia synthesis under ambient conditions. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 4735-4739	13	37
317	3D Bioprinting of Methylcellulose/Gelatin-Methacryloyl (MC/GelMA) Bioink with High Shape Integrity.. <i>ACS Applied Bio Materials</i> , 2020 , 3, 1815-1826	4.1	42
316	Physiochemical and mechanical properties of reduced graphene oxide cement mortar composites: Effect of reduced graphene oxide particle size. <i>Construction and Building Materials</i> , 2020 , 250, 118832	6.7	16
315	MgAl-Layered Double Hydroxide (LDH) Modified Diatoms for Highly Efficient Removal of Congo Red from Aqueous Solution. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 2285	2.6	32
314	Experimental Study on Glass and Polymers: Determining the Optimal Material for Potential Use in Terahertz Technology. <i>IEEE Access</i> , 2020 , 8, 97204-97214	3.5	24
313	Mechanical Properties of Cement Mortar Composites Containing Graphene Oxide. <i>Lecture Notes in Civil Engineering</i> , 2020 , 141-147	0.3	

312	Addressing challenges in providing a reliable ecotoxicology data for graphene-oxide (GO) using an algae (<i>Raphidocelis subcapitata</i>), and the trophic transfer consequence of GO-algae aggregates. <i>Chemosphere</i> , 2020 , 245, 125640	8.4	2
311	Dielectric Properties of Graphene/Titania/Polyvinylidene Fluoride (G/TiO/PVDF) Nanocomposites. <i>Materials</i> , 2020 , 13,	3.5	18
310	Potential of zinc-loaded graphene oxide and arbuscular mycorrhizal fungi to improve the growth and zinc nutrition of <i>Hordeum vulgare</i> and <i>Medicago truncatula</i> . <i>Applied Soil Ecology</i> , 2020 , 150, 103464 ⁵	7	
309	Graphene and metal organic frameworks (MOFs) hybridization for tunable chemoresistive sensors for detection of volatile organic compounds (VOCs) biomarkers. <i>Carbon</i> , 2020 , 159, 333-344	10.4	40
308	Polyamine-modified reduced graphene oxide: A new and cost-effective adsorbent for efficient removal of mercury in waters. <i>Separation and Purification Technology</i> , 2020 , 238, 116441	8.3	20
307	Self-Assembly and Cross-Linking of Conducting Polymers into 3D Hydrogel Electrodes for Supercapacitor Applications. <i>ACS Applied Energy Materials</i> , 2020 , 3, 923-932	6.1	39
306	Electrochemically produced graphene with ultra large particles enhances mechanical properties of Portland cement mortar. <i>Construction and Building Materials</i> , 2020 , 234, 117403	6.7	20
305	Improved preparation of MoS ₂ /graphene composites and their inks for supercapacitors applications. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2020 , 262, 114700	3.1	19
304	Nanodiamonds and their surface modification strategies for drug delivery applications. <i>Journal of Drug Delivery Science and Technology</i> , 2020 , 60, 101993	4.5	22
303	Cross-overlapped flat-silver/hexagonal boron nitride for translucent heat-reflective coatings. <i>Applied Materials Today</i> , 2020 , 20, 100764	6.6	4
302	3D sprayed polyurethane functionalized graphene / carbon nanotubes hybrid architectures to enhance the piezo-resistive response of quantum resistive pressure sensors. <i>Carbon</i> , 2020 , 168, 564-579 ^{10.4}	11	
301	Investigating the reinforcing mechanism and optimized dosage of pristine graphene for enhancing mechanical strengths of cementitious composites.. <i>RSC Advances</i> , 2020 , 10, 42777-42789	3.7	1
300	All-in-One Bioinspired Multifunctional Graphene Biopolymer Foam for Simultaneous Removal of Multiple Water Pollutants. <i>Advanced Materials Interfaces</i> , 2020 , 7, 2000664	4.6	6
299	Influence of pristine graphene particle sizes on physicochemical, microstructural and mechanical properties of Portland cement mortars. <i>Construction and Building Materials</i> , 2020 , 264, 120188	6.7	10
298	Functional inks and extrusion-based 3D printing of 2D materials: a review of current research and applications. <i>Nanoscale</i> , 2020 , 12, 19007-19042	7.7	38
297	Biotemplated top-down assembly of hybrid Ni nanoparticles/N doping carbon on diatomite for enhanced catalytic reduction of 4-nitrophenol. <i>Chemical Engineering Journal</i> , 2020 , 383, 123156	14.7	25
296	Hybridization of MOFs and graphene: A new strategy for the synthesis of porous 3D carbon composites for high performing supercapacitors. <i>Electrochimica Acta</i> , 2020 , 329, 135104	6.7	35
295	Revealing the dependence of graphene concentration and physicochemical properties on the crushing strength of co-granulated fertilizers by wet granulation process. <i>Powder Technology</i> , 2020 , 360, 588-597	5.2	5

294	Superhydrophobic/superoleophilic natural fibres for continuous oil-water separation and interfacial dye-adsorption. <i>Separation and Purification Technology</i> , 2020 , 233, 116062	8.3	36
293	Mineralisation and release of ¹⁴ C-graphene oxide (GO) in soils. <i>Chemosphere</i> , 2020 , 238, 124558	8.4	7
292	Engineering of high-performance potassium-ion capacitors using polyaniline-derived N-doped carbon nanotubes anode and laser scribed graphene oxide cathode. <i>Applied Materials Today</i> , 2019 , 16, 425-434	6.6	29
291	Free-standing PEDOT/polyaniline conductive polymer hydrogel for flexible solid-state supercapacitors. <i>Electrochimica Acta</i> , 2019 , 322, 134769	6.7	78
290	Synthesis of three phase graphene/titania/polydimethylsiloxane nanocomposite films and revealing their dielectric and impedance properties. <i>Ceramics International</i> , 2019 , 45, 8713-8720	5.1	8
289	Activation of natural halloysite nanotubes by introducing lanthanum oxycarbonate nanoparticles via co-calcination for outstanding phosphate removal. <i>Chemical Communications</i> , 2019 , 55, 2110-2113	5.8	65
288	Optimisation of phosphate loading on graphene oxide/Fe(III) composites [possibilities for engineering slow release fertilisers. <i>New Journal of Chemistry</i> , 2019 , 43, 8580-8589	3.6	4
287	Facile synthesis of ternary graphene nanocomposites with doped metal oxide and conductive polymers as electrode materials for high performance supercapacitors. <i>Scientific Reports</i> , 2019 , 9, 5974	4.9	51
286	Tuning MnO ₂ to FeOOH replicas with bio-template 3D morphology as electrodes for high performance asymmetric supercapacitors. <i>Chemical Engineering Journal</i> , 2019 , 370, 136-147	14.7	119
285	Titania nanotube-based protein delivery system to inhibit cranial bone regeneration in Crouzon model of craniosynostosis. <i>International Journal of Nanomedicine</i> , 2019 , 14, 6313-6324	7.3	6
284	Electromigration with enhanced green emission in the titanium dioxide nanotube/graphene composite. <i>Current Applied Physics</i> , 2019 , 19, 1082-1087	2.6	
283	Lake sedimentary biogenic silica from diatoms constitutes a significant global sink for aluminium. <i>Nature Communications</i> , 2019 , 10, 4829	17.4	11
282	MoS ₂ /Graphene Composites as Promising Materials for Energy Storage and Conversion Applications. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1900915	4.6	32
281	Supercapacitors: MoS ₂ /Graphene Composites as Promising Materials for Energy Storage and Conversion Applications (Adv. Mater. Interfaces 20/2019). <i>Advanced Materials Interfaces</i> , 2019 , 6, 1970129	4.6	
280	Diatom Silica for Biomedical Applications 2019 , 511-536		1
279	Tuning the Multifunctional Surface Chemistry of Reduced Graphene Oxide via Combined Elemental Doping and Chemical Modifications. <i>ACS Omega</i> , 2019 , 4, 19787-19798	3.9	26
278	Advancing fabrication and properties of three-dimensional graphene-alginate scaffolds for application in neural tissue engineering.. <i>RSC Advances</i> , 2019 , 9, 36838-36848	3.7	11
277	Magnetic iron oxide nanoparticles decorated graphene for chemoresistive gas sensing: The particle size effects. <i>Journal of Colloid and Interface Science</i> , 2019 , 539, 315-325	9.3	22

276	Multifunctional Binding Chemistry on Modified Graphene Composite for Selective and Highly Efficient Adsorption of Mercury. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 6350-6362	9.5	94
275	Graphene oxide-Fe(III) composite containing phosphate [A novel slow release fertilizer for improved agriculture management. <i>Journal of Cleaner Production</i> , 2018 , 185, 97-104	10.3	39
274	Engineering of highly conductive and ultra-thin nitrogen-doped graphene films by combined methods of microwave irradiation, ultrasonic spraying and thermal annealing. <i>Chemical Engineering Journal</i> , 2018 , 338, 764-773	14.7	21
273	Micro- and nano-structured 3D printed titanium implants with a hydroxyapatite coating for improved osseointegration. <i>Journal of Materials Chemistry B</i> , 2018 , 6, 3136-3144	7.3	41
272	Electrostatic powder coatings of pristine graphene: A new approach for coating of granular and fibril substrates. <i>Applied Surface Science</i> , 2018 , 441, 187-193	6.7	7
271	Electrocatalytic Activity of a 2D Phosphorene-Based Heteroelectrocatalyst for Photoelectrochemical Cells. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 2644-2647	16.4	39
270	Electrocatalytic Activity of a 2D Phosphorene-Based Heteroelectrocatalyst for Photoelectrochemical Cells. <i>Angewandte Chemie</i> , 2018 , 130, 2674-2677	3.6	8
269	Cogranulation of Low Rates of Graphene and Graphene Oxide with Macronutrient Fertilizers Remarkably Improves Their Physical Properties. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 1299-1309 ⁹	8.3	309
268	Ecotoxicology of manufactured graphene oxide nanomaterials and derivation of preliminary guideline values for freshwater environments. <i>Environmental Toxicology and Chemistry</i> , 2018 , 37, 1340-1348	13.8	15
267	Silver Nanowires with Pristine Graphene Oxidation Barriers for Stable and High Performance Transparent Conductive Films. <i>ACS Applied Nano Materials</i> , 2018 , 1, 2249-2260	5.6	24
266	Nanotechnologies for tissue engineering and regeneration 2018 , 93-206		11
265	Glypican-based drug releasing titania implants to regulate BMP2 bioactivity as a potential approach for craniosynostosis therapy. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2018 , 14, 2365-2374 ⁶		7
264	Scanning atmospheric plasma for ultrafast reduction of graphene oxide and fabrication of highly conductive graphene films and patterns. <i>Carbon</i> , 2018 , 127, 113-121	10.4	53
263	Nanoparticles for pest control: current status and future perspectives. <i>Journal of Pest Science</i> , 2018 , 91, 1-15	5.5	157
262	Green Synthesis of Three-Dimensional Hybrid N-Doped ORR Electro-Catalysts Derived from Apricot Sap. <i>Materials</i> , 2018 , 11,	3.5	6
261	Fabrication and Optimization of Bilayered Nanoporous Anodic Alumina Structures as Multi-Point Interferometric Sensing Platform. <i>Sensors</i> , 2018 , 18,	3.8	10
260	Surface functionalized dendrimers as controlled-release delivery nanosystems for tumor targeting. <i>European Journal of Pharmaceutical Sciences</i> , 2018 , 122, 311-330	5.1	51
259	Mixed-Mode Remediation of Cadmium and Arsenate Ions Using Graphene-Based Materials. <i>Clean - Soil, Air, Water</i> , 2018 , 46, 1800073	1.6	3

258	Diatom Silica for Biomedical Applications: Recent Progress and Advances. <i>Advanced Healthcare Materials</i> , 2018 , 7, e1800552	10.1	43
257	Graphene oxide as an antimicrobial agent can extend the vase life of cut flowers. <i>Nano Research</i> , 2018 , 11, 6010-6022	10	14
256	The hydrothermal processing of iron oxides from bacterial biofilm waste as new nanomaterials for broad applications.. <i>RSC Advances</i> , 2018 , 8, 34848-34852	3.7	4
255	Carbon Nanomaterial Sensors for Cancer and Disease Diagnosis 2018 , 167-202		1
254	Sorptive remediation of perfluorooctanoic acid (PFOA) using mixed mineral and graphene/carbon-based materials. <i>Environmental Chemistry</i> , 2018 , 15, 472	3.2	21
253	Engineered titanium implants for localized drug delivery: recent advances and perspectives of Titania nanotubes arrays. <i>Expert Opinion on Drug Delivery</i> , 2018 , 15, 1021-1037	8	28
252	Activating 2D nano-kaolinite using hybrid nanoparticles for enhanced phosphate capture. <i>Chemical Communications</i> , 2018 , 54, 11649-11652	5.8	9
251	Dielectric and impedance spectroscopic studies of three phase graphene/titania/poly(vinyl alcohol) nanocomposite films. <i>Results in Physics</i> , 2018 , 11, 540-548	3.7	21
250	A Facile Synthesis Procedure for Sulfonated Aniline Oligomers with Distinct Microstructures. <i>Materials</i> , 2018 , 11,	3.5	2
249	Advancing Dielectric and Ferroelectric Properties of Piezoelectric Polymers by Combining Graphene and Ferroelectric Ceramic Additives for Energy Storage Applications. <i>Materials</i> , 2018 , 11,	3.5	9
248	Heterojunction of graphene and titanium dioxide nanotube composites for enhancing photocatalytic activity. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 265304	3	8
247	Size- and shape-controlled synthesis of well-organised carbon nanotubes using nanoporous anodic alumina with different pore diameters. <i>Journal of Colloid and Interface Science</i> , 2017 , 491, 375-389	9.3	11
246	Interlayer growth of borates for highly adhesive graphene coatings with enhanced abrasion resistance, fire-retardant and antibacterial ability. <i>Carbon</i> , 2017 , 117, 252-262	10.4	36
245	Engineering of Surface Chemistry for Enhanced Sensitivity in Nanoporous Interferometric Sensing Platforms. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 8929-8940	9.5	24
244	Graphene-Borate as an Efficient Fire Retardant for Cellulosic Materials with Multiple and Synergetic Modes of Action. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 10160-10168	9.5	54
243	Facile Adhesion-Tuning of Superhydrophobic Surfaces between "Lotus" and "Petal" Effect and Their Influence on Icing and Deicing Properties. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 8393-8402	8.5	89
242	Bacterial iron-oxide nanowires from biofilm waste as a new adsorbent for the removal of arsenic from water. <i>RSC Advances</i> , 2017 , 7, 3941-3948	3.7	17
241	Multifunctional microspherical magnetic and pH responsive carriers for combination anticancer therapy engineered by droplet-based microfluidics. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 4097-4109	7.3	29

240	Nanoporous Alumina as an Intelligent Nanomaterial for Biomedical Applications 2017 , 127-159		3
239	Diatom silica, an emerging biomaterial for energy conversion and storage. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 8847-8859	13	60
238	Development of flexible supercapacitors using an inexpensive graphene/PEDOT/MnO ₂ sponge composite. <i>Materials and Design</i> , 2017 , 125, 1-10	8.1	47
237	In vivo toxicological assessment of electrochemically engineered anodic alumina nanotubes: a study of biodistribution, subcutaneous implantation and intravenous injection. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 2511-2523	7.3	6
236	Local co-administration of gene-silencing RNA and drugs in cancer therapy: State-of-the art and therapeutic potential. <i>Cancer Treatment Reviews</i> , 2017 , 55, 128-135	14.4	18
235	Morphology-controlled MnO ₂ modified silicon diatoms for high-performance asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 10856-10865	13	72
234	Anodized 3D-printed titanium implants with dual micro- and nano-scale topography promote interaction with human osteoblasts and osteocyte-like cells. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017 , 11, 3313-3325	4.4	64
233	Estimation of anisotropic permeability in trabecular bone based on microCT imaging and pore-scale fluid dynamics simulations. <i>Bone Reports</i> , 2017 , 6, 129-139	2.6	18
232	Recent Advances in Sensing Applications of Graphene Assemblies and Their Composites. <i>Advanced Functional Materials</i> , 2017 , 27, 1702891	15.6	161
231	Graphene Oxide-Based Lamella Network for Enhanced Sound Absorption. <i>Advanced Functional Materials</i> , 2017 , 27, 1703820	15.6	67
230	Water Soluble Fluorescent Carbon Nanodots from Biosource for Cells Imaging. <i>Journal of Nanomaterials</i> , 2017 , 2017, 1-10	3.2	40
229	Development of Vapor/Gas Sensors From Biopolymer Composites 2017 , 385-403		5
228	Self-Assembly of Graphene Derivatives: Methods, Structures, and Applications 2017 , 47-74		6
227	Highly biocompatible carbon nanocapsules derived from plastic waste for advanced cancer therapy. <i>Journal of Drug Delivery Science and Technology</i> , 2017 , 41, 351-358	4.5	9
226	Trastuzumab-decorated nanoparticles for in vitro and in vivo tumor-targeting hyperthermia of HER2+ breast cancer. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 7369-7383	7.3	18
225	A Novel Fabrication Approach for Multifunctional Graphene-based Thin Film Nano-composite Membranes with Enhanced Desalination and Antibacterial Characteristics. <i>Scientific Reports</i> , 2017 , 7, 7490	4.9	15
224	Engineering of Micro- to Nanostructured 3D-Printed Drug-Releasing Titanium Implants for Enhanced Osseointegration and Localized Delivery of Anticancer Drugs. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 29562-29570	9.5	38
223	Graphene Oxide: A New Carrier for Slow Release of Plant Micronutrients. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 43325-43335	9.5	66

222	From Graphene Oxide to Reduced Graphene Oxide: Impact on the Physiochemical and Mechanical Properties of Graphene-Cement Composites. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 43275-43288	9.5	106
221	Study of iron oxide nanoparticle phases in graphene aerogels for oxygen reduction reaction. <i>New Journal of Chemistry</i> , 2017 , 41, 15180-15186	3.6	13
220	Chemodosimeter functionalized diatomaceous earth particles for visual detection and removal of trace mercury ions from water. <i>Chemical Engineering Journal</i> , 2017 , 327, 725-733	14.7	41
219	Applications of graphene in microbial fuel cells: The gap between promise and reality. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 72, 1389-1403	16.2	119
218	Laboratory evaluation of five novel pyrrole derivatives as grain protectants against <i>Tribolium confusum</i> and <i>Ephestia kuehniella</i> larvae. <i>Journal of Pest Science</i> , 2017 , 90, 569-585	5.5	19
217	Biological response of human suture mesenchymal cells to Titania nanotube-based implants for advanced craniosynostosis therapy. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017 , 150, 59-67	6	11
216	High-efficiency microwave graphene antenna 2017 ,		5
215	Revealing the dependence of the physiochemical and mechanical properties of cement composites on graphene oxide concentration. <i>RSC Advances</i> , 2017 , 7, 55148-55156	3.7	32
214	A Unique 3D Nitrogen-Doped Carbon Composite as High-Performance Oxygen Reduction Catalyst. <i>Materials</i> , 2017 , 10,	3.5	13
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