

Krasimir Vasilev

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.

252
papers

7,755
citations

50
h-index

75
g-index

272
ext. papers

9,002
ext. citations

6
avg, IF

6.35
L-index

#	Paper	IF	Citations
252	Long-term antibacterial properties of a nanostructured titanium alloy surface: An study.. <i>Materials Today Bio</i> , 2022 , 13, 100176	9.9	6
251	Prostate cancer detection: a systematic review of urinary biosensors.. <i>Prostate Cancer and Prostatic Diseases</i> , 2022 ,	6.2	3
250	Design principles for bacteria-responsive antimicrobial nanomaterials. <i>Materials Today Chemistry</i> , 2022 , 23, 100606	6.2	2
249	The introduction of nanotopography suppresses bacterial adhesion and enhances osteoinductive capacity of plasma deposited polyoxazoline surface. <i>Materials Letters</i> , 2022 , 309, 131452	3.3	0
248	A practical guide to promote informatics-driven efficient biotopographic material development. <i>Bioactive Materials</i> , 2022 , 8, 515-528	16.7	0
247	Interactions between Liquid Metal Droplets and Bacterial, Fungal, and Mammalian Cells (Adv. Mater. Interfaces 7/2022). <i>Advanced Materials Interfaces</i> , 2022 , 9, 2270035	4.6	0
246	Bio-Inspired Nanostructured Ti-6Al-4V Alloy: The Role of Two Alkaline Etchants and the Hydrothermal Processing Duration on Antibacterial Activity.. <i>Nanomaterials</i> , 2022 , 12,	5.4	6
245	Spiked Nanostructures Disrupt Fungal Biofilm and Impart Increased Sensitivity to Antifungal Treatment (Adv. Mater. Interfaces 12/2022). <i>Advanced Materials Interfaces</i> , 2022 , 9, 2270065	4.6	
244	Antimicrobial adhesive films by plasma-enabled polymerisation of m-cresol.. <i>Scientific Reports</i> , 2022 , 12, 7560	4.9	1
243	Surface chemistry mediated albumin adsorption, conformational changes and influence on innate immune responses. <i>Applied Surface Science</i> , 2022 , 596, 153518	6.7	0
242	ROS-responsive copolymer micelles for inflammation triggered delivery of ibuprofen. <i>Colloids and Surfaces B: Biointerfaces</i> , 2022 , 112590	6	1
241	Current Perspectives for Engineering Antimicrobial Nanostructured Materials. <i>Current Opinion in Biomedical Engineering</i> , 2022 , 100399	4.4	0
240	Nanomechanical tribological characterisation of nanostructured titanium alloy surfaces using AFM: A friction vs velocity study. <i>Colloids and Surfaces B: Biointerfaces</i> , 2022 , 217, 112600	6	2
239	Selective Microfluidic Capture and Detection of Prostate Cancer Cells from Urine without Digital Rectal Examination. <i>Cancers</i> , 2021 , 13,	6.6	1
238	Oxy-Steam Reforming of Liquefied Natural Gas (LNG) on Mono- and Bimetallic (Ag, Pt, Pd or Ru)/Ni Catalysts. <i>Catalysts</i> , 2021 , 11, 1401	4	1
237	Surface nanotopography mediated albumin adsorption, unfolding and modulation of early innate immune responses. <i>Materials Today Advances</i> , 2021 , 12, 100187	7.4	0
236	Fluorescence sensing technology for the rapid detection of haze-forming proteins in white wine. <i>Food Chemistry</i> , 2021 , 374, 131770	8.5	0

235	Hydrothermally etched titanium: a review on a promising mechano-bactericidal surface for implant applications. <i>Materials Today Chemistry</i> , 2021 , 22, 100622	6.2	9
234	Improving hexaminolevulinate enabled cancer cell detection in liquid biopsy immunosensors. <i>Scientific Reports</i> , 2021 , 11, 7283	4.9	2
233	Amine-functionalized natural zeolites prepared through plasma polymerization for enhanced carbon dioxide adsorption. <i>Plasma Processes and Polymers</i> , 2021 , 18, 2100028	3.4	2
232	Unidirectional and bi-directional growth of carbon nanotubes on the catalytic Co ₂ Ni(O) material. <i>Journal of Materials Research and Technology</i> , 2021 , 12, 512-520	5.5	1
231	The Effect of the Activation Process and Metal Oxide Addition (CaO, MgO, SrO) on the Catalytic and Physicochemical Properties of Natural Zeolite in Transesterification Reaction. <i>Materials</i> , 2021 , 14,	3.5	4
230	Synergistic Effect of Surface Chemistry and Surface Topography Gradient on Osteogenic/Adipogenic Differentiation of hMSCs. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 30306-30316	9.5	16
229	RAFT synthesis of thioether-based, AB diblock copolymer nanocarriers for reactive oxygen species triggered release. <i>Materials Today Chemistry</i> , 2021 , 20, 100444	6.2	3
228	Bioactive Plasma Coatings on Orthodontic Brackets: In Vitro Metal Ion Release and Cytotoxicity. <i>Coatings</i> , 2021 , 11, 857	2.9	0
227	Effect of the support composition on catalytic and physicochemical properties of Ni catalysts in oxy-steam reforming of methane. <i>Catalysis Today</i> , 2021 , 364, 46-60	5.3	8
226	Disruption of Enterococcus Faecalis biofilms using individual and plasma polymer encapsulated D-amino acids. <i>Clinical Oral Investigations</i> , 2021 , 25, 3305-3313	4.2	1
225	Synergistic effect of deep ball burnishing and HA coating on surface integrity, corrosion and immune response of biodegradable AZ31B Mg alloys. <i>Materials Science and Engineering C</i> , 2021 , 118, 111459	8.3	9
224	Cancer cell detection device for the diagnosis of bladder cancer from urine. <i>Biosensors and Bioelectronics</i> , 2021 , 171, 112699	11.8	7
223	Insights into the biomechanical properties of plasma treated 3D printed PCL scaffolds decorated with gold nanoparticles. <i>Composites Science and Technology</i> , 2021 , 202, 108544	8.6	10
222	Plasma polymer surface modified expanded polytetrafluoroethylene promotes epithelial monolayer formation in vitro and can be transplanted into the dystrophic rat subretinal space. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2021 , 15, 49-62	4.4	0
221	pH-Responsive "Smart" Hydrogel for Controlled Delivery of Silver Nanoparticles to Infected Wounds. <i>Antibiotics</i> , 2021 , 10,	4.9	27
220	Antimicrobial Peptides Grafted onto a Plasma Polymer Interlayer Platform: Performance upon Extended Bacterial Challenge. <i>Coatings</i> , 2021 , 11, 68	2.9	9
219	Efficiency enhancement of low-cost metal free dye sensitized solar cells via non-thermal atmospheric pressure plasma surface treatment. <i>Solar Energy</i> , 2021 , 215, 367-374	6.8	9
218	Multifunctional ultrasmall AgNP hydrogel accelerates healing of S. aureus infected wounds. <i>Acta Biomaterialia</i> , 2021 , 128, 420-434	10.8	17

217	Comparative Study of Natural Terpenoid Precursors in Reactive Plasmas for Thin Film Deposition. <i>Molecules</i> , 2021 , 26,	4.8	1
216	Fluorescence correlation spectroscopy to unravel the interactions between macromolecules in wine. <i>Food Chemistry</i> , 2021 , 352, 129343	8.5	5
215	In Vitro Bactericidal Efficacy of Nanostructured Ti6Al4V Surfaces is Bacterial Load Dependent. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 38007-38017	9.5	11
214	Eradication of Mature Bacterial Biofilms with Concurrent Improvement in Chronic Wound Healing Using Silver Nanoparticle Hydrogel Treatment. <i>Biomedicines</i> , 2021 , 9,	4.8	8
213	Mechanistic Insight in Surface Nanotopography Driven Cellular Migration. <i>ACS Biomaterials Science and Engineering</i> , 2021 , 7, 4921-4932	5.5	0
212	Fluid Flow Dependency in Immunoselective Cell Capture via Liquid Biopsy. <i>Langmuir</i> , 2021 , 37, 12388-12396		
211	Polycationic Silver Nanoclusters Comprising Nanoreservoirs of Ag Ions with High Antimicrobial and Antibiofilm Activity.. <i>ACS Applied Materials & Interfaces</i> , 2021 ,	9.5	3
210	Plasma enabled devices for the selective capture and photodynamic identification of prostate cancer cells. <i>Biointerphases</i> , 2020 , 15, 031002	1.8	9
209	The Influence of Nanoparticle Shape on Protein Corona Formation. <i>Small</i> , 2020 , 16, e2000285	11	45
208	Cortistatin protects against intervertebral disc degeneration through targeting mitochondrial ROS-dependent NLRP3 inflammasome activation. <i>Theranostics</i> , 2020 , 10, 7015-7033	12.1	28
207	Shedding Light on Bladder Cancer Diagnosis in Urine. <i>Diagnostics</i> , 2020 , 10,	3.8	6
206	Bactericidal Silver Nanoparticles by Atmospheric Pressure Solution Plasma Processing. <i>Nanomaterials</i> , 2020 , 10,	5.4	12
205	Bacterial membrane permeability of antimicrobial polymethacrylates: Evidence for a complex mechanism from super-resolution fluorescence imaging. <i>Acta Biomaterialia</i> , 2020 , 108, 168-177	10.8	7
204	Hydrogen Production on Cu-Ni Catalysts via the Oxy-Steam Reforming of Methanol. <i>Catalysts</i> , 2020 , 10, 273	4	12
203	Nanoparticle Shape: The Influence of Nanoparticle Shape on Protein Corona Formation (Small 25/2020). <i>Small</i> , 2020 , 16, 2070141	11	1
202	Modulation of Macrophages Differentiation by Nanoscale-Engineered Geometric and Chemical Features.. <i>ACS Applied Bio Materials</i> , 2020 , 3, 1496-1505	4.1	3
201	Field Deployable Method for Gold Detection Using Gold Pre-Concentration on Functionalized Surfaces. <i>Sensors</i> , 2020 , 20,	3.8	1
200	It takes two for chronic wounds to heal: dispersing bacterial biofilm and modulating inflammation with dual action plasma coatings.. <i>RSC Advances</i> , 2020 , 10, 7368-7376	3.7	4

199	Probing Hexaminolevulinate Mediated PpIX Fluorescence in Cancer Cell Suspensions in the Presence of Chemical Adjuvants. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	6
198	Biodiesel Production on Monometallic Pt, Pd, Ru, and Ag Catalysts Supported on Natural Zeolite. <i>Materials</i> , 2020 , 14,	3.5	5
197	The Impact of Engineered Silver Nanomaterials on the Immune System. <i>Nanomaterials</i> , 2020 , 10,	5.4	18
196	Physico-chemical modification of natural mordenite-clinoptilolite zeolites and their enhanced CO ₂ adsorption capacity. <i>Microporous and Mesoporous Materials</i> , 2020 , 294, 109871	5.3	27
195	Functional nanothin films plasma-deposited from 2-isopropenyl-2-oxazoline for biosensor applications. <i>Biointerphases</i> , 2020 , 15, 051005	1.8	6
194	To be a radical or not to be one? The fate of the stable nitroxide radical TEMPO [(2,2,6,6-Tetramethylpiperidin-1-yl)oxyl] undergoing plasma polymerization into thin-film coatings. <i>Biointerphases</i> , 2020 , 15, 031015	1.8	2
193	Ultrasmall AgNP-Impregnated Biocompatible Hydrogel with Highly Effective Biofilm Elimination Properties. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 41011-41025	9.5	34
192	Novel Rh(Pd)-Cu(Ni) supported catalysts for oxy-steam reforming of methanol. <i>Arabian Journal of Chemistry</i> , 2020 , 13, 3183-3195	5.9	6
191	Chemical characterisation, antibacterial activity, and (nano)silver transformation of commercial personal care products exposed to household greywater. <i>Environmental Science: Nano</i> , 2019 , 6, 3027-3028 ¹	7.1	7
190	The interplay between size and valence state on the antibacterial activity of sub-10 nm silver nanoparticles. <i>Nanoscale Advances</i> , 2019 , 1, 2365-2371	5.1	17
189	Spatially Localized Synthesis of Metal Nanoclusters on Clay Nanotubes and Their Catalytic Performance. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 18350-18358	8.3	11
188	Nanotopography-Induced Unfolding of Fibrinogen Modulates Leukocyte Binding and Activation. <i>Advanced Functional Materials</i> , 2019 , 29, 1807453	15.6	17
187	Ghrelin protects against contact dermatitis and psoriasiform skin inflammation by antagonizing TNF- α /NF- κ B signaling pathways. <i>Scientific Reports</i> , 2019 , 9, 1348	4.9	20
186	Surface Functionalization of Exposed Core Glass Optical Fiber for Metal Ion Sensing. <i>Sensors</i> , 2019 , 19,	3.8	8
185	Biocompatible functionalisation of nanoclays for improved environmental remediation. <i>Chemical Society Reviews</i> , 2019 , 48, 3740-3770	58.5	68
184	Ghrelin Fights Against Titanium Particle-Induced Inflammatory Osteolysis Through Activation of E-Catenin Signaling Pathway. <i>Inflammation</i> , 2019 , 42, 1652-1665	5.1	4
183	Using Zeolites To Protein Stabilize White Wines. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 ,	8.3	7
182	Plasma Polymer Coatings To Direct the Differentiation of Mouse Kidney-Derived Stem Cells into Podocyte and Proximal Tubule-like Cells. <i>ACS Biomaterials Science and Engineering</i> , 2019 , 5, 2834-2845	5.5	3

181	Core-in-cage structure regulated properties of ultra-small gold nanoparticles. <i>Nanoscale Advances</i> , 2019 ,	5.1	5
180	Nanotopography: Nanotopography-Induced Unfolding of Fibrinogen Modulates Leukocyte Binding and Activation (Adv. Funct. Mater. 14/2019). <i>Advanced Functional Materials</i> , 2019 , 29, 1970088	15.6	2
179	Multi-stage dealumination for characteristic engineering of mordenite-clinoptilolite natural zeolite 2019 ,		7
178	Cortistatin binds to TNF- α receptors and protects against osteoarthritis. <i>EBioMedicine</i> , 2019 , 41, 556-570	8.8	23
177	Transformation of Mordenite-Clinoptilolite Natural Zeolite at Different Calcination Temperatures. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019 , 251, 012009	0.3	10
176	Plasma activation on natural mordenite-clinoptilolite zeolite for water vapor adsorption enhancement. <i>Applied Surface Science</i> , 2019 , 483, 940-946	6.7	15
175	Biosensor device for the photo-specific detection of immuno-captured bladder cancer cells using hexaminolevulinate: An ex-vivo study. <i>Photodiagnosis and Photodynamic Therapy</i> , 2019 , 28, 238-247	3.5	12
174	Bladder Cancer Cell Capture: Elucidating the Effect of Sample Storage Conditions on Capturing Bladder Cancer Cells via Surface Immobilized EpCAM Antibody.. <i>ACS Applied Bio Materials</i> , 2019 , 2, 3730-3736	4.1	5
173	Deposition of 2-oxazoline-based plasma polymer coatings using atmospheric pressure helium plasma jet. <i>Plasma Processes and Polymers</i> , 2019 , 16, 1900104	3.4	9
172	Ultrasmall Gold Nanocluster Based Antibacterial Nanoaggregates for Infectious Wound Healing. <i>ChemNanoMat</i> , 2019 , 5, 1176-1181	3.5	18
171	Differentiation of Rat Mesenchymal Stem Cells toward Osteogenic Lineage on Extracellular Matrix Protein Gradients. <i>Advanced Healthcare Materials</i> , 2019 , 8, e1900595	10.1	7
170	Biomaterial Surface Hydrophobicity-Mediated Serum Protein Adsorption and Immune Responses. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 27615-27623	9.5	54
169	Comparative Studies of Fischer-Tropsch Synthesis on Iron Catalysts Supported on Al ₂ O ₃ -Cr ₂ O ₃ (2:1), Multi-Walled Carbon Nanotubes or BEA Zeolite Systems. <i>Catalysts</i> , 2019 , 9, 605	4	3
168	Plasma deposited poly-oxazoline nanotextured surfaces dictate osteoimmunomodulation towards ameliorative osteogenesis. <i>Acta Biomaterialia</i> , 2019 , 96, 568-581	10.8	21
167	Regeneration of Magnetic Nanoparticles Used in the Removal of Pathogenesis-Related Proteins from White Wines. <i>Foods</i> , 2019 , 9,	4.9	20
166	Nanoengineered Antibacterial Coatings and Materials: A Perspective. <i>Coatings</i> , 2019 , 9, 654	2.9	33
165	The co-effect of surface topography gradient fabricated via immobilization of gold nanoparticles and surface chemistry via deposition of plasma polymerized film of allylamine/acrylic acid on osteoblast-like cell behavior. <i>Applied Surface Science</i> , 2019 , 473, 838-847	6.7	9
164	Preserving the reactivity of coatings plasma deposited from oxazoline precursors [An in depth study. <i>Plasma Processes and Polymers</i> , 2019 , 16, 1800130	3.4	12

163	Perspective on Plasma Polymers for Applied Biomaterials Nanoengineering and the Recent Rise of Oxazolines. <i>Materials</i> , 2019 , 12,	3.5	29
162	Magnetic separation technology: Functional group efficiency in the removal of haze-forming proteins from wines. <i>Food Chemistry</i> , 2019 , 275, 154-160	8.5	19
161	Modern Ni and PdNi Catalysts Supported on SnAl Binary Oxide for Oxy-Steam Reforming of Methanol. <i>Energy Technology</i> , 2018 , 6, 1687-1699	3.5	4
160	Ghrelin protects against osteoarthritis through interplay with Akt and NF-B signaling pathways. <i>FASEB Journal</i> , 2018 , 32, 1044-1058	0.9	32
159	"Chocolate" Gold Nanoparticles-One Pot Synthesis and Biocompatibility. <i>Nanomaterials</i> , 2018 , 8,	5.4	12
158	Binding of Nanoparticles to Aminated Plasma Polymer Surfaces is Controlled by Primary Amine Density and Solution pH. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 14986-14995	3.8	7
157	Silver nanoparticle modified surfaces induce differentiation of mouse kidney-derived stem cells.. <i>RSC Advances</i> , 2018 , 8, 20334-20340	3.7	3
156	Nanoengineered plasma polymer films for biomedical applications. <i>Advanced Materials Letters</i> , 2018 , 9, 42-52	2.4	4
155	Self-sterilizing antibacterial silver-loaded microneedles. <i>Chemical Communications</i> , 2018 , 55, 171-174	5.8	40
154	High Active and Selective Ni/CeO2Al2O3 and PdNi/CeO2Al2O3 Catalysts for Oxy-Steam Reforming of Methanol. <i>Catalysts</i> , 2018 , 8, 380	4	19
153	Plasma Polymerization of TEMPO Yields Coatings Containing Stable Nitroxide Radicals for Controlling Interactions with Prokaryotic and Eukaryotic Cells. <i>ACS Applied Nano Materials</i> , 2018 , 1, 6587-6595	5.6	9
152	Creating Nano-engineered Biomaterials with Well-Defined Surface Descriptors. <i>ACS Applied Nano Materials</i> , 2018 , 1, 2796-2807	5.6	24
151	Plasma polymer facilitated magnetic technology for removal of oils from contaminated waters. <i>Environmental Pollution</i> , 2018 , 240, 725-732	9.3	10
150	Rapid fabrication of functionalised poly(dimethylsiloxane) microwells for cell aggregate formation. <i>Biomaterials Science</i> , 2017 , 5, 828-836	7.4	13
149	Surface nanotopography guides kidney-derived stem cell differentiation into podocytes. <i>Acta Biomaterialia</i> , 2017 , 56, 171-180	10.8	24
148	The Interplay between Surface Nanotopography and Chemistry Modulates Collagen I and III Deposition by Human Dermal Fibroblasts. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 5874-5884	9.5	16
147	A platform for selective immuno-capture of cancer cells from urine. <i>Biosensors and Bioelectronics</i> , 2017 , 96, 373-380	11.8	39
146	A novel technology for the rapid, selective, magnetic removal of pathogenesis-related proteins from wines. <i>Food Chemistry</i> , 2017 , 232, 508-514	8.5	29

145	Tuning Chemistry and Topography of Nanoengineered Surfaces to Manipulate Immune Response for Bone Regeneration Applications. <i>ACS Nano</i> , 2017 , 11, 4494-4506	16.7	153
144	Synergic bactericidal effects of reduced graphene oxide and silver nanoparticles against Gram-positive and Gram-negative bacteria. <i>Scientific Reports</i> , 2017 , 7, 1591	4.9	90
143	Secrets of Plasma-Deposited Polyoxazoline Functionality Lie in the Plasma Phase. <i>Chemistry of Materials</i> , 2017 , 29, 8047-8051	9.6	16
142	Nanotopography mediated osteogenic differentiation of human dental pulp derived stem cells. <i>Nanoscale</i> , 2017 , 9, 14248-14258	7.7	23
141	Questions and Answers on the Wettability of Nano-Engineered Surfaces. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1700381	4.6	43
140	Oxygen-Releasing Coatings for Improved Tissue Preservation. <i>ACS Biomaterials Science and Engineering</i> , 2017 , 3, 2384-2390	5.5	15
139	The formation of a functional retinal pigment epithelium occurs on porous polytetrafluoroethylene substrates independently of the surface chemistry. <i>Journal of Materials Science: Materials in Medicine</i> , 2017 , 28, 124	4.5	2
138	Nanotopography-based strategy for the precise manipulation of osteoimmunomodulation in bone regeneration. <i>Nanoscale</i> , 2017 , 9, 18129-18152	7.7	77
137	Protein Interactions with Nanoengineered Polyoxazoline Surfaces Generated via Plasma Deposition. <i>Langmuir</i> , 2017 , 33, 7322-7331	4	27
136	Selective deposition of CaCO ₃ on chemical gradient surface generated by plasma polymerization and its effect on cell adhesion. <i>Materials Letters</i> , 2017 , 186, 90-93	3.3	2
135	Activated Carbon, Carbon Nanotubes and Graphene: Materials and Composites for Advanced Water Purification. <i>Journal of Carbon Research</i> , 2017 , 3, 18	3.3	86
134	The Role of Controlled Surface Topography and Chemistry on Mouse Embryonic Stem Cell Attachment, Growth and Self-Renewal. <i>Materials</i> , 2017 , 10,	3.5	14
133	D-amino acids reduce <i>Enterococcus faecalis</i> biofilms in vitro and in the presence of antimicrobials used for root canal treatment. <i>PLoS ONE</i> , 2017 , 12, e0170670	3.7	30
132	A Comparative Assessment of Nanoparticulate and Metallic Silver Coated Dressings. <i>Recent Patents on Materials Science</i> , 2016 , 9, 50-57	0.3	2
131	Bactericidal effects of plasma-modified surface chemistry of silicon nanograss. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 304001	3	19
130	Antibacterial properties of silver dendrite decorated silicon nanowires. <i>RSC Advances</i> , 2016 , 6, 65976-65987	3.7	31
129	Plasma Polymer Deposition: A Versatile Tool for Stem Cell Research 2016 , 199-232		6
128	Bimetallic AuCu, AuNi catalysts supported on MWCNTs for oxy-steam reforming of methanol. <i>Applied Catalysis B: Environmental</i> , 2016 , 185, 281-294	21.8	60

127	Antibiofouling Properties of Plasma-Deposited Oxazoline-Based Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 6354-62	9.5	57
126	Silver nanoparticle based coatings enhance adipogenesis compared to osteogenesis in human mesenchymal stem cells through oxidative stress. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 1466-1479	7.3	35
125	Tuning and predicting the wetting of nanoengineered material surface. <i>Nanoscale</i> , 2016 , 8, 4635-42	7.7	46
124	"Thunderstruck": Plasma-Polymer-Coated Porous Silicon Microparticles As a Controlled Drug Delivery System. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 4467-76	9.5	32
123	Plasma deposition of organic polymer films for solar cell applications. <i>Organic Electronics</i> , 2016 , 32, 78-83	3.5	13
122	Antibacterial properties of nitric oxide-releasing porous silicon nanoparticles. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 2051-2058	7.3	27
121	The effect of gold on modern bimetallic AuCu/MWCNT catalysts for the oxy-steam reforming of methanol. <i>Catalysis Science and Technology</i> , 2016 , 6, 4168-4183	5.5	34
120	Influence of immobilized quaternary ammonium group surface density on antimicrobial efficacy and cytotoxicity. <i>Biofouling</i> , 2016 , 32, 13-24	3.3	36
119	Effects of Precursor and Deposition Conditions on Prevention of Bacterial Biofilm Growth on Chlorinated Plasma Polymers. <i>Plasma Processes and Polymers</i> , 2016 , 13, 654-662	3.4	8
118	The Role of Surface Nanotopography and Chemistry on Primary Neutrophil and Macrophage Cellular Responses. <i>Advanced Healthcare Materials</i> , 2016 , 5, 956-65	10.1	57
117	Temperature-Controlled Antimicrobial Release from Poly(diethylene glycol methylether methacrylate)-Functionalized Bottleneck-Structured Porous Silicon for the Inhibition of Bacterial Growth. <i>Macromolecular Chemistry and Physics</i> , 2016 , 217, 2243-2251	2.6	22
116	Inflammasome components ASC and AIM2 modulate the acute phase of biomaterial implant-induced foreign body responses. <i>Scientific Reports</i> , 2016 , 6, 20635	4.9	16
115	The contribution of inflammasome components on macrophage response to surface nanotopography and chemistry. <i>Scientific Reports</i> , 2016 , 6, 26207	4.9	29
114	Chocolate Silver nanoparticles: Synthesis, antibacterial activity and cytotoxicity. <i>Journal of Colloid and Interface Science</i> , 2016 , 482, 151-158	9.3	55
113	MWCNTs as a catalyst in oxy-steam reforming of methanol. <i>RSC Advances</i> , 2016 , 6, 81408-81413	3.7	18
112	Speciation and lability of Ag-, AgCl-, and Ag ₂ S-nanoparticles in soil determined by X-ray absorption spectroscopy and diffusive gradients in thin films. <i>Environmental Science & Technology</i> , 2015 , 49, 897-905	10.3	88
111	Quantifying the adsorption of ionic silver and functionalized nanoparticles during ecotoxicity testing: Test container effects and recommendations. <i>Nanotoxicology</i> , 2015 , 9, 1005-12	5.3	41
110	Hybrid core/shell microparticles and their use for understanding biological processes. <i>Journal of Colloid and Interface Science</i> , 2015 , 457, 9-17	9.3	14

109	Properties and reactivity of polyoxazoline plasma polymer films. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 6327-6337	7.3	52
108	Materials Displaying Neural Growth Factor Gradients and Applications in Neural Differentiation of Embryoid Body Cells. <i>Advanced Functional Materials</i> , 2015 , 25, 2737-2744	15.6	19
107	Fate of zinc and silver engineered nanoparticles in sewerage networks. <i>Water Research</i> , 2015 , 77, 72-84	12.5	84
106	Antibacterial Plasma Polymer Films Conjugated with Phospholipid Encapsulated Silver Nanoparticles. <i>ACS Biomaterials Science and Engineering</i> , 2015 , 1, 1278-1286	5.5	32
105	Effect of Surface Chemical Functionalities on Collagen Deposition by Primary Human Dermal Fibroblasts. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 23767-75	9.5	23
104	Surface Chemical Gradient Affects the Differentiation of Human Adipose-Derived Stem Cells via ERK1/2 Signaling Pathway. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 18473-82	9.5	41
103	Nitric oxide releasing plasma polymer coating with bacteriostatic properties and no cytotoxic side effects. <i>Chemical Communications</i> , 2015 , 51, 7058-60	5.8	32
102	Controlled and sustained release of pharmaceuticals via single step solvent-free encapsulation. <i>Chemical Communications</i> , 2015 , 51, 1838-41	5.8	18
101	Laboratory Scale Systems for the Plasma Treatment and Coating of Particles. <i>Plasma Processes and Polymers</i> , 2015 , 12, 305-313	3.4	18
100	In situ chemical transformations of silver nanoparticles along the water-sediment continuum. <i>Environmental Science & Technology</i> , 2015 , 49, 318-25	10.3	33
99	Electrical conduction in plasma polymerized thin films of Eerpinene. <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a	2.9	6
98	Innate Immunity and Biomaterials at the Nexus: Friends or Foes. <i>BioMed Research International</i> , 2015 , 2015, 342304	3	75
97	Nanosuspension Technologies for Delivery of Poorly Soluble Drugs. <i>Journal of Nanomaterials</i> , 2015 , 2015, 1-13	3.2	48
96	The Potential of Nanomaterials for Drug Delivery, Cell Tracking, and Regenerative Medicine 2014. <i>Journal of Nanomaterials</i> , 2015 , 2015, 1-2	3.2	3
95	Plasma polymerised polyoxazoline thin films for biomedical applications. <i>Chemical Communications</i> , 2015 , 51, 4279-82	5.8	68
94	Silver Nanoparticles: Synthesis, Antimicrobial Coatings, and Applications for Medical Devices. <i>Recent Patents on Materials Science</i> , 2015 , 8, 166-175	0.3	12
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