

Krasimir Vasilev

List of Publications by Citations

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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	Antibacterial surfaces for biomedical devices. <i>Expert Review of Medical Devices</i> , 2009 , 6, 553-67	3.5	388
251	Tethered Lipid Bilayers on Ultraflat Gold Surfaces. <i>Langmuir</i> , 2003 , 19, 5435-5443	4	233
250	Transformation of four silver/silver chloride nanoparticles during anaerobic treatment of wastewater and post-processing of sewage sludge. <i>Environmental Pollution</i> , 2013 , 176, 193-7	9.3	169
249	Tailoring the surface functionalities of titania nanotube arrays. <i>Biomaterials</i> , 2010 , 31, 532-40	15.6	167
248	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
247	Surface Modification of Citrate-Reduced Colloidal Gold Nanoparticles with 2-Mercaptosuccinic Acid. <i>Langmuir</i> , 2003 , 19, 9518-9525	4	146
246	Guanylated polymethacrylates: a class of potent antimicrobial polymers with low hemolytic activity. <i>Biomacromolecules</i> , 2013 , 14, 4021-31	6.9	145
245	Tunable antibacterial coatings that support mammalian cell growth. <i>Nano Letters</i> , 2010 , 10, 202-7	11.5	140
244	Antibacterial Surfaces and Coatings Produced by Plasma Techniques. <i>Plasma Processes and Polymers</i> , 2011 , 8, 1010-1023	3.4	130
243	Controlled drug release from porous materials by plasma polymer deposition. <i>Chemical Communications</i> , 2010 , 46, 1317-9	5.8	130
242	Substrate independent silver nanoparticle based antibacterial coatings. <i>Biomaterials</i> , 2014 , 35, 4601-9	15.6	112
241	Surface-plasmon-mediated single-molecule fluorescence through a thin metallic film. <i>Physical Review Letters</i> , 2005 , 94, 023005	7.4	104
240	Enzyme responsive hyaluronic acid nanocapsules containing polyhexanide and their exposure to bacteria to prevent infection. <i>Biomacromolecules</i> , 2013 , 14, 1103-12	6.9	101
239	Substrate influence on the initial growth phase of plasma-deposited polymer films. <i>Chemical Communications</i> , 2009 , 3600-2	5.8	93
238	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
237	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
236	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

235	Solvent-induced porosity in ultrathin amine plasma polymer coatings. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 10915-21	3.4	86
234	Fate of zinc and silver engineered nanoparticles in sewerage networks. <i>Water Research</i> , 2015 , 77, 72-84	12.5	84
233	Reactive epoxy-functionalized thin films by a pulsed plasma polymerization process. <i>Langmuir</i> , 2008 , 24, 10187-95	4	81
232	Fluorescence intensities of chromophores in front of a thin metal film. <i>Journal of Chemical Physics</i> , 2004 , 120, 3439-45	3.9	80
231	Early Stages of Growth of Plasma Polymer Coatings Deposited from Nitrogen- and Oxygen-Containing Monomers. <i>Plasma Processes and Polymers</i> , 2010 , 7, 824-835	3.4	79
230	Nanotopography-based strategy for the precise manipulation of osteoimmunomodulation in bone regeneration. <i>Nanoscale</i> , 2017 , 9, 18129-18152	7.7	77
229	Antimicrobial Polymethacrylates Synthesized as Mimics of Tryptophan-Rich Cationic Peptides.. <i>ACS Macro Letters</i> , 2014 , 3, 319-323	6.6	76
228	Surface modification by allylamine plasma polymerization promotes osteogenic differentiation of human adipose-derived stem cells. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 9733-41	9.5	76
227	Innate Immunity and Biomaterials at the Nexus: Friends or Foes. <i>BioMed Research International</i> , 2015 , 2015, 342304	3	75
226	Antibacterial surfaces by adsorptive binding of polyvinyl-sulphonate-stabilized silver nanoparticles. <i>Nanotechnology</i> , 2010 , 21, 215102	3.4	74
225	A Phase 3, open-label, non-comparative study of tigecycline in the treatment of patients with selected serious infections due to resistant Gram-negative organisms including <i>Enterobacter</i> species, <i>Acinetobacter baumannii</i> and <i>Klebsiella pneumoniae</i> . <i>Journal of Antimicrobial Chemotherapy</i> , 2008 , 62 Suppl 1, i29-40	5.1	74
224	Surface modification of nanoporous alumina membranes by plasma polymerization. <i>Nanotechnology</i> , 2008 , 19, 245704	3.4	73
223	Multilayer DNA/poly(allylamine hydrochloride) microcapsules: assembly and mechanical properties. <i>Biomacromolecules</i> , 2005 , 6, 1495-502	6.9	72
222	The influence of substrate stiffness gradients on primary human dermal fibroblasts. <i>Biomaterials</i> , 2013 , 34, 5070-7	15.6	71
221	Surface Morphology in the Early Stages of Plasma Polymer Film Growth from Amine-Containing Monomers. <i>Plasma Processes and Polymers</i> , 2011 , 8, 367-372	3.4	70
220	Biocompatible functionalisation of nanoclays for improved environmental remediation. <i>Chemical Society Reviews</i> , 2019 , 48, 3740-3770	58.5	68
219	Plasma polymerised polyoxazoline thin films for biomedical applications. <i>Chemical Communications</i> , 2015 , 51, 4279-82	5.8	68
218	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

217	Ultra small Gd(2)O(3) nanoparticles: Absorption and emission properties. <i>Journal of Colloid and Interface Science</i> , 2011 , 354, 592-6	9.3	59
216	RAFT-derived antimicrobial polymethacrylates: elucidating the impact of end-groups on activity and cytotoxicity. <i>Polymer Chemistry</i> , 2014 , 5, 5813-5822	4.9	58
215	Antibiofouling Properties of Plasma-Deposited Oxazoline-Based Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 6354-62	9.5	57
214	Creating gradients of two proteins by differential passive adsorption onto a PEG-density gradient. <i>Biomaterials</i> , 2010 , 31, 392-7	15.6	57
213	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
212	Small surface nanotopography encourages fibroblast and osteoblast cell adhesion. <i>RSC Advances</i> , 2013 , 3, 10309	3.7	56
211	Chocolate Silver nanoparticles: Synthesis, antibacterial activity and cytotoxicity. <i>Journal of Colloid and Interface Science</i> , 2016 , 482, 151-158	9.3	55
210	Biomaterial Surface Hydrophobicity-Mediated Serum Protein Adsorption and Immune Responses. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 27615-27623	9.5	54
209	pH-tunable gradients of wettability and surface potential. <i>Soft Matter</i> , 2012 , 8, 8399	3.6	54
208	Controlled release of levofloxacin sandwiched between two plasma polymerized layers on a solid carrier. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 4831-6	9.5	53
207	Properties and reactivity of polyoxazoline plasma polymer films. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 6327-6337	7.3	52
206	Simple, one-step synthesis of gold nanowires in aqueous solution. <i>Langmuir</i> , 2005 , 21, 12399-403	4	52
205	Salt softening of polyelectrolyte multilayer microcapsules. <i>Journal of Colloid and Interface Science</i> , 2005 , 284, 455-62	9.3	52
204	Interaction and adhesion properties of polyelectrolyte multilayers. <i>Langmuir</i> , 2005 , 21, 7545-50	4	51
203	Method for the Generation of Surface-Bound Nanoparticle Density Gradients. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 3429-3433	3.8	50
202	Functionality of proteins bound to plasma polymer surfaces. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 2455-63	9.5	49
201	Nanosuspension Technologies for Delivery of Poorly Soluble Drugs. <i>Journal of Nanomaterials</i> , 2015 , 2015, 1-13	3.2	48
200	A substrate independent approach for generation of surface gradients. <i>Thin Solid Films</i> , 2013 , 528, 106-110	11.0	47

199	Responsive and "smart" antibacterial surfaces: common approaches and new developments (Review). <i>Biointerphases</i> , 2014 , 9, 029005	1.8	47
198	Tuning and predicting the wetting of nanoengineered material surface. <i>Nanoscale</i> , 2016 , 8, 4635-42	7.7	46
197	A pH-responsive interface derived from resilin-mimetic protein Rec1-resilin. <i>Biomaterials</i> , 2010 , 31, 4434-46	4.6	46
196	The Influence of Nanoparticle Shape on Protein Corona Formation. <i>Small</i> , 2020 , 16, e2000285	11	45
195	Synthesis and antibacterial properties of a hybrid of silver-potato starch nanocapsules by miniemulsion/polyaddition polymerization. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 1838-1845	7.3	44
194	Questions and Answers on the Wettability of Nano-Engineered Surfaces. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1700381	4.6	43
193	Functional polymers as nanoscopic building blocks. <i>Materials Science and Engineering C</i> , 2003 , 23, 267-278	4.3	42
192	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
191	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
190	Self-sterilizing antibacterial silver-loaded microneedles. <i>Chemical Communications</i> , 2018 , 55, 171-174	5.8	40
189	A platform for selective immuno-capture of cancer cells from urine. <i>Biosensors and Bioelectronics</i> , 2017 , 96, 373-380	11.8	39
188	Role of positive ions in determining the deposition rate and film chemistry of continuous wave hexamethyl disiloxane plasmas. <i>Langmuir</i> , 2011 , 27, 11943-50	4	39
187	Manipulation and conductivity measurements of gold nanowires. <i>Applied Surface Science</i> , 2004 , 238, 490-494	6.7	39
186	Gd ₂ O ₃ nanoparticles: size-dependent nuclear magnetic resonance. <i>Contrast Media and Molecular Imaging</i> , 2013 , 8, 92-5	3.2	38
185	Nitric oxide-releasing porous silicon nanoparticles. <i>Nanoscale Research Letters</i> , 2014 , 9, 333	5	37
184	Influence of immobilized quaternary ammonium group surface density on antimicrobial efficacy and cytotoxicity. <i>Biofouling</i> , 2016 , 32, 13-24	3.3	36
183	Nanoengineered Plasma Polymer Films for Biomaterial Applications. <i>Plasma Chemistry and Plasma Processing</i> , 2014 , 34, 545-558	3.6	36
182	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

181	The effect of gold on modern bimetallic Au/Cu/MWCNT catalysts for the oxy-steam reforming of methanol. <i>Catalysis Science and Technology</i> , 2016 , 6, 4168-4183	5.5	34
180	Highly selective Pd/Cu/ZnAl ₂ O ₄ catalyst for hydrogen production. <i>Applied Catalysis A: General</i> , 2014 , 479, 26-34	5.1	34
179	Extraordinary optical transmission: coupling of the Wood-Rayleigh anomaly and the Fabry-Perot resonance. <i>Optics Letters</i> , 2012 , 37, 1742-4	3	34
178	Ultrasmall AgNP-Impregnated Biocompatible Hydrogel with Highly Effective Biofilm Elimination Properties. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 41011-41025	9.5	34
177	In situ chemical transformations of silver nanoparticles along the water-sediment continuum. <i>Environmental Science & Technology</i> , 2015 , 49, 318-25	10.3	33
176	Nanoengineered Antibacterial Coatings and Materials: A Perspective. <i>Coatings</i> , 2019 , 9, 654	2.9	33
175	Antibacterial Plasma Polymer Films Conjugated with Phospholipid Encapsulated Silver Nanoparticles. <i>ACS Biomaterials Science and Engineering</i> , 2015 , 1, 1278-1286	5.5	32
174	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
173	Ghrelin protects against osteoarthritis through interplay with Akt and NF- κ B signaling pathways. <i>FASEB Journal</i> , 2018 , 32, 1044-1058	0.9	32
172	"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
171	Immobilized streptavidin gradients as bioconjugation platforms. <i>Langmuir</i> , 2012 , 28, 2710-7	4	32
170	Antibacterial properties of silver dendrite decorated silicon nanowires. <i>RSC Advances</i> , 2016 , 6, 65976-65987	3.7	31
169	Enzymatic degradation of poly(L-lactide) nanoparticles followed by the release of octenidine and their bactericidal effects. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2014 , 10, 131-9	6	31
168	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
167	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
166	Surface chemical functionalities affect the behavior of human adipose-derived stem cells in vitro. <i>Applied Surface Science</i> , 2013 , 270, 473-479	6.7	29
165	The contribution of inflammasome components on macrophage response to surface nanotopography and chemistry. <i>Scientific Reports</i> , 2016 , 6, 26207	4.9	29
164	Perspective on Plasma Polymers for Applied Biomaterials Nanoengineering and the Recent Rise of Oxazolines. <i>Materials</i> , 2019 , 12,	3.5	29

163	Cortistatin protects against intervertebral disc degeneration through targeting mitochondrial ROS-dependent NLRP3 inflammasome activation. <i>Theranostics</i> , 2020 , 10, 7015-7033	12.1	28
162	Antibacterial properties of nitric oxide-releasing porous silicon nanoparticles. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 2051-2058	7.3	27
161	Protein Interactions with Nanoengineered Polyoxazoline Surfaces Generated via Plasma Deposition. <i>Langmuir</i> , 2017 , 33, 7322-7331	4	27
160	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
159	pH-Responsive "Smart" Hydrogel for Controlled Delivery of Silver Nanoparticles to Infected Wounds. <i>Antibiotics</i> , 2021 , 10,	4.9	27
158	Surface immobilization of engineered nanomaterials for in situ study of their environmental transformations and fate. <i>Environmental Science & Technology</i> , 2013 , 47, 9308-16	10.3	26
157	A Mechanistic Study of the Plasma Polymerization of Ethanol. <i>Plasma Processes and Polymers</i> , 2014 , 11, 149-157	3.4	26
156	Approaches to Quantify Amine Groups in the Presence of Hydroxyl Functional Groups in Plasma Polymerized Thin Films. <i>Plasma Processes and Polymers</i> , 2014 , 11, 888-896	3.4	25
155	Reduced photobleaching of chromophores close to a metal surface. <i>Journal of Chemical Physics</i> , 2004 , 120, 6701-4	3.9	25
154	Surface nanotopography guides kidney-derived stem cell differentiation into podocytes. <i>Acta Biomaterialia</i> , 2017 , 56, 171-180	10.8	24
153	Antibacterial Properties of Silver-Loaded Plasma Polymer Coatings. <i>Journal of Nanomaterials</i> , 2012 , 2012, 1-9	3.2	24
152	Photonic mode density effects on single-molecule fluorescence blinking. <i>New Journal of Physics</i> , 2007 , 9, 21-21	2.9	24
151	Creating Nano-engineered Biomaterials with Well-Defined Surface Descriptors. <i>ACS Applied Nano Materials</i> , 2018 , 1, 2796-2807	5.6	24
150	Cortistatin binds to TNF- α receptors and protects against osteoarthritis. <i>EBioMedicine</i> , 2019 , 41, 556-570	8.8	23
149	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
148	The Effect of ZnAl ₂ O ₄ on the Performance of Cu/Zn _x Al _y O _{x+1.5y} Supported Catalysts in Steam Reforming of Methanol. <i>Topics in Catalysis</i> , 2013 , 56, 1015-1025	2.3	23
147	Nanotopography mediated osteogenic differentiation of human dental pulp derived stem cells. <i>Nanoscale</i> , 2017 , 9, 14248-14258	7.7	23
146	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

145	Plasma deposited poly-oxazoline nanotextured surfaces dictate osteoimmunomodulation towards ameliorative osteogenesis. <i>Acta Biomaterialia</i> , 2019 , 96, 568-581	10.8	21
144	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
143	Synthesis and surface immobilization of antibacterial hybrid silver-poly(l-lactide) nanoparticles. <i>Nanotechnology</i> , 2014 , 25, 305102	3.4	20
142	Surface bound amine functional group density influences embryonic stem cell maintenance. <i>Advanced Healthcare Materials</i> , 2013 , 2, 585-90	10.1	20
141	Regeneration of Magnetic Nanoparticles Used in the Removal of Pathogenesis-Related Proteins from White Wines. <i>Foods</i> , 2019 , 9,	4.9	20
140	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
139	Bactericidal effects of plasma-modified surface chemistry of silicon nanograss. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 304001	3	19
138	MetaPath: an electronic knowledge base for collating, exchanging and analyzing case studies of xenobiotic metabolism. <i>Regulatory Toxicology and Pharmacology</i> , 2012 , 63, 84-96	3.4	19
137	Metabolic activation of chemicals: in-silico simulation. <i>SAR and QSAR in Environmental Research</i> , 2006 , 17, 107-20	3.5	19
136	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
135	High Active and Selective Ni/CeO ₂ /Al ₂ O ₃ and Pd/Ni/CeO ₂ /Al ₂ O ₃ Catalysts for Oxy-Steam Reforming of Methanol. <i>Catalysts</i> , 2018 , 8, 380	4	19
134	Controlled and sustained release of pharmaceuticals via single step solvent-free encapsulation. <i>Chemical Communications</i> , 2015 , 51, 1838-41	5.8	18
133	Laboratory Scale Systems for the Plasma Treatment and Coating of Particles. <i>Plasma Processes and Polymers</i> , 2015 , 12, 305-313	3.4	18
132	Ultrasmall Gold Nanocluster Based Antibacterial Nanoaggregates for Infectious Wound Healing. <i>ChemNanoMat</i> , 2019 , 5, 1176-1181	3.5	18
131	Simulation of chemical metabolism for fate and hazard assessment. III. New developments of the bioconcentration factor base-line model. <i>SAR and QSAR in Environmental Research</i> , 2012 , 23, 17-36	3.5	18
130	The Impact of Engineered Silver Nanomaterials on the Immune System. <i>Nanomaterials</i> , 2020 , 10,	5.4	18
129	MWCNTs as a catalyst in oxy-steam reforming of methanol. <i>RSC Advances</i> , 2016 , 6, 81408-81413	3.7	18
128	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

127	Nanotopography-Induced Unfolding of Fibrinogen Modulates Leukocyte Binding and Activation. <i>Advanced Functional Materials</i> , 2019 , 29, 1807453	15.6	17
126	Multifunctional ultrasmall AgNP hydrogel accelerates healing of <i>S. aureus</i> infected wounds. <i>Acta Biomaterialia</i> , 2021 , 128, 420-434	10.8	17
125	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
124	Secrets of Plasma-Deposited Polyoxazoline Functionality Lie in the Plasma Phase. <i>Chemistry of Materials</i> , 2017 , 29, 8047-8051	9.6	16
123	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
122	Plasma activation on natural mordenite-clinoptilolite zeolite for water vapor adsorption enhancement. <i>Applied Surface Science</i> , 2019 , 483, 940-946	6.7	15
121	Oxygen-Releasing Coatings for Improved Tissue Preservation. <i>ACS Biomaterials Science and Engineering</i> , 2017 , 3, 2384-2390	5.5	15
120	Thermodynamic and structural studies of mixed monolayers: Mutual mixing of DPPC and DPPG with DoTAP at the air/water interface. <i>Materials Science and Engineering C</i> , 2010 , 30, 542-548	8.3	15
119	Scrutinizing calcium flux oscillations in T lymphocytes to deduce the strength of stimulus. <i>Scientific Reports</i> , 2015 , 5, 7760	4.9	15
118	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
117	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
116	Solid-state capture and real-time analysis of individual T cell activation via self-assembly of binding multimeric proteins on functionalized materials surfaces. <i>Acta Biomaterialia</i> , 2012 , 8, 99-107	10.8	14
115	Rapid fabrication of functionalised poly(dimethylsiloxane) microwells for cell aggregate formation. <i>Biomaterials Science</i> , 2017 , 5, 828-836	7.4	13
114	Plasma deposition of organic polymer films for solar cell applications. <i>Organic Electronics</i> , 2016 , 32, 78-83.5	3.5	13
113	Plasma polymerization of 1,1,1-trichloroethane yields a coating with robust antibacterial surface properties. <i>RSC Advances</i> , 2014 , 4, 27604-27606	3.7	13
112	Bactericidal Silver Nanoparticles by Atmospheric Pressure Solution Plasma Processing. <i>Nanomaterials</i> , 2020 , 10,	5.4	12
111	Hydrogen Production on Cu-Ni Catalysts via the Oxy-Steam Reforming of Methanol. <i>Catalysts</i> , 2020 , 10, 273	4	12
110	"Chocolate" Gold Nanoparticles-One Pot Synthesis and Biocompatibility. <i>Nanomaterials</i> , 2018 , 8,	5.4	12

109	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
108	Controlled release and bioactivity of the monoclonal antibody rituximab from a porous matrix: A potential in situ therapeutic device. <i>Materials Letters</i> , 2014 , 130, 210-214	3.3	12
107	Investigation of Wear Particles Generated in Human Knee Joints Using Atomic Force Microscopy. <i>Tribology Letters</i> , 2013 , 51, 161-170	2.8	12
106	The potential of small chemical functional groups for directing the differentiation of kidney stem cells. <i>Biochemical Society Transactions</i> , 2010 , 38, 1062-6	5.1	12
105	Preparation of gold nanoparticles in an aqueous medium using 2-mercaptosuccinic acid as both reduction and capping agent. <i>Journal of Nanoscience and Nanotechnology</i> , 2008 , 8, 2062-8	1.3	12
104	Silver Nanoparticles: Synthesis, Antimicrobial Coatings, and Applications for Medical Devices. <i>Recent Patents on Materials Science</i> , 2015 , 8, 166-175	0.3	12
103	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
102	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
101	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
100	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
99	Versatile gradients of chemistry, bound ligands and nanoparticles on alumina nanopore arrays. <i>Nanotechnology</i> , 2011 , 22, 415601	3.4	10
98	Template-assisted generation of nanocavities within plasma polymer films. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 7059-63	3.4	10
97	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
96	Plasma polymer facilitated magnetic technology for removal of oils from contaminated waters. <i>Environmental Pollution</i> , 2018 , 240, 725-732	9.3	10
95	Plasma enabled devices for the selective capture and photodynamic identification of prostate cancer cells. <i>Biointerphases</i> , 2020 , 15, 031002	1.8	9
94	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
93	Subtle changes in surface chemistry affect embryoid body cell differentiation: lessons learnt from surface-bound amine density gradients. <i>Tissue Engineering - Part A</i> , 2014 , 20, 1715-25	3.9	9
92	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

91	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
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