

Subramanian Venkatraman

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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.

260
papers

9,771
citations

52
h-index

87
g-index

273
ext. papers

10,903
ext. citations

6.4
avg, IF

6.4
L-index

#	Paper	IF	Citations
260	Self-assembled cationic peptide nanoparticles as an efficient antimicrobial agent. <i>Nature Nanotechnology</i> , 2009 , 4, 457-63	28.7	489
259	Porous polycaprolactone scaffold for cardiac tissue engineering fabricated by selective laser sintering. <i>Acta Biomaterialia</i> , 2010 , 6, 2028-34	10.8	271
258	Polycaprolactone-based biomaterials for tissue engineering and drug delivery: Current scenario and challenges. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2016 , 65, 255-263		258
257	Photopolymerization of cell-encapsulating hydrogels: crosslinking efficiency versus cytotoxicity. <i>Acta Biomaterialia</i> , 2012 , 8, 1838-48	10.8	235
256	Accelerating the Translation of Nanomaterials in Biomedicine. <i>ACS Nano</i> , 2015 , 9, 6644-54	16.7	220
255	Biologically active core/shell nanoparticles self-assembled from cholesterol-terminated PEG-TAT for drug delivery across the blood-brain barrier. <i>Biomaterials</i> , 2008 , 29, 1509-17	15.6	215
254	Implanted cardiovascular polymers: Natural, synthetic and bio-inspired. <i>Progress in Polymer Science</i> , 2008 , 33, 853-874	29.6	183
253	Skin adhesives and skin adhesion. 1. Transdermal drug delivery systems. <i>Biomaterials</i> , 1998 , 19, 1119-36	15.6	178
252	Microstructure of poly(vinyl alcohol) hydrogels produced by freeze/thaw cycling. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1999 , 37, 3438-3454	2.6	159
251	Modeling of drug release from bulk-degrading polymers. <i>International Journal of Pharmaceutics</i> , 2011 , 418, 28-41	6.5	158
250	Sustained-release from nanocarriers: a review. <i>Journal of Controlled Release</i> , 2014 , 193, 122-38	11.7	152
249	Controlled release from bioerodible polymers: effect of drug type and polymer composition. <i>Journal of Controlled Release</i> , 2005 , 102, 333-44	11.7	152
248	Biodegradable stents with elastic memory. <i>Biomaterials</i> , 2006 , 27, 1573-8	15.6	149
247	The effect of topography of polymer surfaces on platelet adhesion. <i>Biomaterials</i> , 2010 , 31, 1533-45	15.6	143
246	Release profiles in drug-eluting stents: issues and uncertainties. <i>Journal of Controlled Release</i> , 2007 , 120, 149-60	11.7	139
245	Controlled release of sirolimus from a multilayered PLGA stent matrix. <i>Biomaterials</i> , 2006 , 27, 5588-95	15.6	123
244	Recent Advances in Chitosan-Based Carriers for Gene Delivery. <i>Marine Drugs</i> , 2019 , 17,	6	115

243	Optimizing partition-controlled drug release from electrospun core-shell fibers. <i>International Journal of Pharmaceutics</i> , 2010 , 392, 209-17	6.5	111
242	Modeling of drug release from biodegradable polymer blends. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2008 , 70, 796-803	5.7	111
241	In vitro study of release mechanisms of paclitaxel and rapamycin from drug-incorporated biodegradable stent matrices. <i>Journal of Controlled Release</i> , 2004 , 98, 67-74	11.7	111
240	Micro-/nano-engineered cellular responses for soft tissue engineering and biomedical applications. <i>Small</i> , 2011 , 7, 1361-78	11	107
239	Micelle-like nanoparticles of PLA-PEG-PLA triblock copolymer as chemotherapeutic carrier. <i>International Journal of Pharmaceutics</i> , 2005 , 298, 219-32	6.5	103
238	ABA and BAB type triblock copolymers of PEG and PLA: a comparative study of drug release properties and "stealth" particle characteristics. <i>International Journal of Pharmaceutics</i> , 2007 , 334, 48-55	6.5	100
237	Micelle-like nanoparticles of star-branched PEO-PLA copolymers as chemotherapeutic carrier. <i>Journal of Controlled Release</i> , 2005 , 110, 20-33	11.7	98
236	Polymeric micelles anchored with TAT for delivery of antibiotics across the blood-brain barrier. <i>Biopolymers</i> , 2008 , 90, 617-23	2.2	95
235	Collapse pressures of biodegradable stents. <i>Biomaterials</i> , 2003 , 24, 2105-11	15.6	95
234	Drug delivery to the eye: what benefits do nanocarriers offer?. <i>Nanomedicine</i> , 2017 , 12, 683-702	5.6	93
233	Magnetic iron oxide nanoparticles: Synthesis and surface coating techniques for biomedical applications. <i>Chinese Physics B</i> , 2014 , 23, 037503	1.2	93
232	Printing cell-laden gelatin constructs by free-form fabrication and enzymatic protein crosslinking. <i>Biomedical Microdevices</i> , 2015 , 17, 16	3.7	92
231	Contact guidance for cardiac tissue engineering using 3D bioprinted gelatin patterned hydrogel. <i>Biofabrication</i> , 2018 , 10, 025003	10.5	92
230	Aminosilane micropatterns on hydroxyl-terminated substrates: fabrication and applications. <i>Langmuir</i> , 2010 , 26, 5603-9	4	91
229	Bioprinting and Differentiation of Stem Cells. <i>Molecules</i> , 2016 , 21,	4.8	88
228	Sustained drug release in nanomedicine: a long-acting nanocarrier-based formulation for glaucoma. <i>ACS Nano</i> , 2014 , 8, 419-29	16.7	81
227	Microneedle-Assisted Topical Delivery of Photodynamically Active Mesoporous Formulation for Combination Therapy of Deep-Seated Melanoma. <i>ACS Nano</i> , 2018 , 12, 11936-11948	16.7	79
226	Water-Responsive Shape Recovery Induced Buckling in Biodegradable Photo-Cross-Linked Poly(ethylene glycol) (PEG) Hydrogel. <i>Accounts of Chemical Research</i> , 2017 , 50, 141-150	24.3	78

225	Importance of viscosity parameters in electrospinning: Of monolithic and core-shell fibers. <i>Materials Science and Engineering C</i> , 2012 , 32, 1037-1042	8.3	78
224	Magnetic PNIPA hydrogels for hyperthermia applications in cancer therapy. <i>Materials Science and Engineering C</i> , 2007 , 27, 347-351	8.3	77
223	Hyaluronic acid-based nanocomposite hydrogels for ocular drug delivery applications. <i>Journal of Biomedical Materials Research - Part A</i> , 2014 , 102, 3056-65	5.4	76
222	Biohybrid cardiac ECM-based hydrogels improve long term cardiac function post myocardial infarction. <i>Acta Biomaterialia</i> , 2017 , 50, 220-233	10.8	74
221	In vitro and in vivo performance of a dual drug-eluting stent (DDES). <i>Biomaterials</i> , 2010 , 31, 4382-91	15.6	74
220	Bioresorbable stents: Current and upcoming bioresorbable technologies. <i>International Journal of Cardiology</i> , 2017 , 228, 931-939	3.2	69
219	Thick acellular heart extracellular matrix with inherent vasculature: a potential platform for myocardial tissue regeneration. <i>Tissue Engineering - Part A</i> , 2012 , 18, 2125-37	3.9	64
218	Bioabsorbable radiopaque water-responsive shape memory embolization plug for temporary vascular occlusion. <i>Biomaterials</i> , 2016 , 102, 98-106	15.6	62
217	Sustained release of an anti-glaucoma drug: demonstration of efficacy of a liposomal formulation in the rabbit eye. <i>PLoS ONE</i> , 2011 , 6, e24513	3.7	61
216	Rheological properties of rodlike polymers in solution. 1. Linear and nonlinear steady-state behavior. <i>Macromolecules</i> , 1981 , 14, 939-946	5.5	60
215	Nanofibril scaffold assisted MEMS artificial hydrogel neuromasts for enhanced sensitivity flow sensing. <i>Scientific Reports</i> , 2016 , 6, 19336	4.9	60
214	Nanomedicine for glaucoma: liposomes provide sustained release of latanoprost in the eye. <i>International Journal of Nanomedicine</i> , 2012 , 7, 123-31	7.3	58
213	Photosensitizer anchored gold nanorods for targeted combinational photothermal and photodynamic therapy. <i>Chemical Communications</i> , 2016 , 52, 8854-7	5.8	57
212	Effect of pore size and interpore distance on endothelial cell growth on polymers. <i>Journal of Biomedical Materials Research - Part A</i> , 2008 , 87, 710-8	5.4	56
211	Natural myocardial ECM patch drives cardiac progenitor based restoration even after scarring. <i>Acta Biomaterialia</i> , 2016 , 44, 209-20	10.8	55
210	The effect of polyethylene glycol structure on paclitaxel drug release and mechanical properties of PLGA thin films. <i>Acta Biomaterialia</i> , 2011 , 7, 1973-83	10.8	54
209	Drug release from injectable depots: two different in vitro mechanisms. <i>Journal of Controlled Release</i> , 2004 , 99, 207-16	11.7	52
208	Bio-inspired micropatterned platform to steer stem cell differentiation. <i>Small</i> , 2011 , 7, 1416-21	11	51

207	Osteoblastic cell response on fluoridated hydroxyapatite coatings: the effect of magnesium incorporation. <i>Biomedical Materials (Bristol)</i> , 2010 , 5, 054114	3.5	50
206	Surface functionalization of nanoparticles to control cell interactions and drug release. <i>Small</i> , 2012 , 8, 2585-94	11	49
205	Layer-by-layer nanoparticles as an efficient siRNA delivery vehicle for SPARC silencing. <i>Small</i> , 2014 , 10, 1790-8	11	47
204	Recovery as a measure of oriented crystalline structure in poly(l-lactide) used as shape memory polymer. <i>Acta Materialia</i> , 2010 , 58, 49-58	8.4	47
203	Layer-by-layer polyelectrolyte-polyester hybrid microcapsules for encapsulation and delivery of hydrophobic drugs. <i>Biomacromolecules</i> , 2013 , 14, 2262-71	6.9	46
202	Effect of plasticization on heparin release from biodegradable matrices. <i>International Journal of Pharmaceutics</i> , 2004 , 283, 89-96	6.5	45
201	A comparison of torsional and capillary rheometry for polymer melts: The Cox-Merz rule revisited. <i>Polymer Engineering and Science</i> , 1990 , 30, 308-313	2.3	45
200	A novel bioabsorbable drug-eluting tracheal stent. <i>Laryngoscope</i> , 2011 , 121, 2234-9	3.6	44
199	Osteoblastic cell response on magnesium-incorporated apatite coatings. <i>Applied Surface Science</i> , 2008 , 255, 304-307	6.7	44
198	Nanomedicine for glaucoma: sustained release latanoprost offers a new therapeutic option with substantial benefits over eyedrops. <i>Drug Delivery and Translational Research</i> , 2014 , 4, 303-9	6.2	43
197	A novel nanostructured poly(lactic-co-glycolic-acid)-multi-walled carbon nanotube composite for blood-contacting applications: thrombogenicity studies. <i>Acta Biomaterialia</i> , 2009 , 5, 3411-22	10.8	43
196	Some insight into hydrolytic scission mechanisms in bioerodible polyesters. <i>Journal of Applied Polymer Science</i> , 2006 , 102, 3111-3117	2.9	43
195	Biocompatibility and biodegradation studies of subconjunctival implants in rabbit eyes. <i>PLoS ONE</i> , 2011 , 6, e22507	3.7	41
194	Characterization of Solute Diffusion in a Polymer Using ATR-FTIR Spectroscopy and Bulk Transport Techniques. <i>Macromolecules</i> , 1994 , 27, 5220-5222	5.5	41
193	Bio-inspired micropatterned hydrogel to direct and deconstruct hierarchical processing of geometry-force signals by human mesenchymal stem cells during smooth muscle cell differentiation. <i>NPG Asia Materials</i> , 2015 , 7, e199-e199	10.3	40
192	Human mesenchymal stem-cell behaviour on direct laser micropatterned electrospun scaffolds with hierarchical structures. <i>Macromolecular Bioscience</i> , 2013 , 13, 299-310	5.5	40
191	Polymer- and liposome-based nanoparticles in targeted drug delivery. <i>Frontiers in Bioscience - Scholar</i> , 2010 , 2, 801-14	2.4	40
190	Shape memory in un-cross-linked biodegradable polymers. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2008 , 19, 175-91	3.5	40

189	Biomedical applications of shape-memory polymers: how practically useful are they?. <i>Science China Chemistry</i> , 2014 , 57, 476-489	7.9	38
188	Shape memory/change effect in a double network nanocomposite tough hydrogel. <i>European Polymer Journal</i> , 2014 , 58, 41-51	5.2	38
187	Adjustable paclitaxel release kinetics and its efficacy to inhibit smooth muscle cells proliferation. <i>Journal of Controlled Release</i> , 2008 , 130, 9-14	11.7	38
186	Structure formation in injectable poly(lactide-co-glycolide) depots. <i>Journal of Controlled Release</i> , 2003 , 90, 345-54	11.7	38
185	Sustained release of hydrophobic and hydrophilic drugs from a floating dosage form. <i>International Journal of Pharmaceutics</i> , 2007 , 336, 159-65	6.5	37
184	Surface modification of smooth poly(L-lactic acid) films for gelatin immobilization. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 687-93	9.5	36
183	The influence of additives in modulating drug delivery and degradation of PLGA thin films. <i>NPG Asia Materials</i> , 2013 , 5, e54-e54	10.3	35
182	Colloidal DNA carriers for direct localization in cell compartments by pH sensing. <i>Biomacromolecules</i> , 2010 , 11, 1779-84	6.9	35
181	A novel model and experimental analysis of hydrophilic and hydrophobic agent release from biodegradable polymers. <i>Journal of Biomedical Materials Research - Part A</i> , 2009 , 90, 1054-65	5.4	35
180	Protein delivery to the back of the eye: barriers, carriers and stability of anti-VEGF proteins. <i>Drug Discovery Today</i> , 2017 , 22, 416-423	8.8	34
179	Surface Modification of PMMA to Improve Adhesion to Corneal Substitutes in a Synthetic Core-Skirt Keratoprosthesis. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 21690-702	9.5	34
178	Biomaterials and design in occlusion devices for cardiac defects: a review. <i>Acta Biomaterialia</i> , 2014 , 10, 1088-101	10.8	33
177	Cosolvent effects on the drug release and depot swelling in injectable in situ depot-forming systems. <i>Journal of Pharmaceutical Sciences</i> , 2012 , 101, 1783-93	3.9	33
176	Shape/temperature memory phenomena in un-crosslinked poly-ε-caprolactone (PCL). <i>European Polymer Journal</i> , 2015 , 72, 282-295	5.2	32
175	Controlled-release nanotherapeutics: State of translation. <i>Journal of Controlled Release</i> , 2018 , 284, 39-48	11.7	32
174	Pushing the envelope in tissue engineering: ex vivo production of thick vascularized cardiac extracellular matrix constructs. <i>Tissue Engineering - Part A</i> , 2015 , 21, 1507-19	3.9	32
173	Evaluating and Modeling the Mechanical Properties of the Prepared PLGA/nano-BCP Composite Scaffolds for Bone Tissue Engineering. <i>Journal of Materials Science and Technology</i> , 2011 , 27, 1105-1112	9.1	32
172	A Novel Amphiphilic Double-[60]Fullerene-Capped Triblock Copolymer. <i>Macromolecules</i> , 2005 , 38, 9889-9893	9.9	32

171	3D patterned substrates for bioartificial blood vessels - The effect of hydrogels on aligned cells on a biomaterial surface. <i>Acta Biomaterialia</i> , 2015 , 26, 159-68	10.8	31
170	Paclitaxel release from single and double-layered poly(DL-lactide-co-glycolide)/poly(L-lactide) film for biodegradable coronary stent application. <i>Journal of Biomedical Materials Research - Part A</i> , 2008 , 87, 1-7	5.4	31
169	Block Copolymer Stealth Nanoparticles for Chemotherapy: Interactions with Blood Cells In Vitro. <i>Advanced Functional Materials</i> , 2008 , 18, 716-725	15.6	31
168	Study of the initial stages of drug release from a degradable matrix of poly(d,l-lactide-co-glycolide). <i>Biomaterials</i> , 2004 , 25, 813-21	15.6	30
167	Tuning model drug release and soft-tissue bioadhesion of polyester films by plasma post-treatment. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 5749-58	9.5	29
166	Understanding the nano-topography changes and cellular influences resulting from the surface adsorption of human hair keratins. <i>Advanced Healthcare Materials</i> , 2012 , 1, 513-9	10.1	29
165	Functionalization of the Polymeric Surface with Bioceramic Nanoparticles via a Novel, Nonthermal Dip Coating Method. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 35565-35577	9.5	29
164	Nitric Oxide-Delivering High-Density Lipoprotein-like Nanoparticles as a Biomimetic Nanotherapy for Vascular Diseases. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 6904-6916	9.5	28
163	Tuning drug release in polyester thin films: terminal end-groups determine specific rates of additive-free controlled drug release. <i>NPG Asia Materials</i> , 2013 , 5, e46-e46	10.3	28
162	Surface modification of poly(L-lactic acid) with biomolecules to promote endothelialization. <i>Biointerphases</i> , 2010 , 5, FA32-40	1.8	28
161	Effects of transesterification and degradation on properties and structure of polycaprolactone-poly(lactide) copolymers. <i>Polymer Degradation and Stability</i> , 2010 , 95, 2596-2602	4.7	28
160	Low-temperature (below T _g) thermal bonding of COC microfluidic devices using UV photografted HEMA-modified substrates: high strength, stable hydrophilic, biocompatible surfaces. <i>Journal of Materials Chemistry</i> , 2011 , 21, 15031		27
159	Fully biodegradable septal defect occluder-a double umbrella design. <i>Catheterization and Cardiovascular Interventions</i> , 2010 , 76, 711-8	2.7	27
158	The effect of process variables on the morphology and release characteristics of protein-loaded PLGA particles. <i>Journal of Applied Polymer Science</i> , 2006 , 101, 3053-3061	2.9	27
157	Bioabsorbable vascular scaffold overexpansion: insights from in vitro post-expansion experiments. <i>EuroIntervention</i> , 2016 , 11, 1389-99	3.1	27
156	Smooth Muscle Cell Alignment and Phenotype Control by Melt Spun Polycaprolactone Fibers for Seeding of Tissue Engineered Blood Vessels. <i>International Journal of Biomaterials</i> , 2015 , 2015, 434876	3.2	26
155	Orientation and structure development in poly(lactide) under uniaxial deformation. <i>Acta Materialia</i> , 2008 , 56, 5083-5090	8.4	26
154	Hydrolytic degradation characteristics of irradiated multi-layered PLGA films. <i>International Journal of Pharmaceutics</i> , 2008 , 360, 228-30	6.5	26

153	High-Density Lipoprotein-like Magnetic Nanostructures (HDL-MNS): Theranostic Agents for Cardiovascular Disease. <i>Chemistry of Materials</i> , 2017 , 29, 2276-2282	9.6	25
152	Modulating drug release from poly(lactic-co-glycolic acid) thin films through terminal end-groups and molecular weight. <i>Polymer Degradation and Stability</i> , 2013 , 98, 619-626	4.7	25
151	Has nanomedicine lived up to its promise?. <i>Nanotechnology</i> , 2014 , 25, 372501	3.4	25
150	Effect of cell-seeding density on the proliferation and gene expression profile of human umbilical vein endothelial cells within ex vivo culture. <i>Cytotherapy</i> , 2011 , 13, 606-17	4.8	25
149	Bioprinted gelatin hydrogel platform promotes smooth muscle cell contractile phenotype maintenance. <i>Biomedical Microdevices</i> , 2018 , 20, 32	3.7	24
148	Materials technology in drug eluting balloons: Current and future perspectives. <i>Journal of Controlled Release</i> , 2016 , 239, 92-106	11.7	24
147	Nanoscale-controlled enzymatic degradation of poly(L-lactic acid) films using dip-pen nanolithography. <i>Small</i> , 2011 , 7, 226-9	11	24
146	Synthesis of stiffness-tunable and cell-responsive Gelatin-poly(ethylene glycol) hydrogel for three-dimensional cell encapsulation. <i>Journal of Biomedical Materials Research - Part A</i> , 2016 , 104, 2401-2411	5.4	24
145	Study of stability and biophysical characterization of ranibizumab and aflibercept. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2016 , 108, 156-167	5.7	24
144	Thermoplastic biodegradable elastomers based on ϵ -caprolactone and L-lactide block co-polymers: a new synthetic approach. <i>Acta Biomaterialia</i> , 2010 , 6, 4261-70	10.8	23
143	Enhancing mechanical properties of thermoplastic polyurethane elastomers with 1,3-trimethylene carbonate, epsilon-caprolactone and L-lactide copolymers via soft segment crystallization. <i>EXPRESS Polymer Letters</i> , 2011 , 5, 897-910	3.4	23
142	A mathematical model for analyzing the elasticity, viscosity, and failure of soft tissue: comparison of native and decellularized porcine cardiac extracellular matrix for tissue engineering. <i>Tissue Engineering - Part C: Methods</i> , 2013 , 19, 620-30	2.9	22
141	Modeling shape memory effect in uncrosslinked amorphous biodegradable polymer. <i>Polymer</i> , 2011 , 52, 874-880	3.9	22
140	A biodegradable ocular implant for long-term suppression of intraocular pressure. <i>Drug Delivery and Translational Research</i> , 2015 , 5, 469-79	6.2	21
139	Collagen-cellulose composite thin films that mimic soft-tissue and allow stem-cell orientation. <i>Journal of Materials Science: Materials in Medicine</i> , 2013 , 24, 2013-27	4.5	21
138	Preparation and mechanical behavior of PLGA/nano-BCP composite scaffolds during in-vitro degradation for bone tissue engineering. <i>Polymer Degradation and Stability</i> , 2011 , 96, 1940-1946	4.7	21
137	Crosslinking of poly(arylene ether ketone)s 1. Rheological behavior of the melt and mechanical properties of cured resin. <i>Journal of Applied Polymer Science</i> , 1986 , 32, 5933-5943	2.9	21
136	Surface Modifications of the PMMA Optic of a Keratoprosthesis to Improve Biointegration. <i>Cornea</i> , 2017 , 36 Suppl 1, S15-S25	3.1	20

135	Bioresorbable Polymeric Scaffold in Cardiovascular Applications. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	20
134	A bilayer swellable drug-eluting ureteric stent: Localized drug delivery to treat urothelial diseases. <i>Biomaterials</i> , 2018 , 165, 25-38	15.6	20
133	Collagen-Based Artificial Corneal Scaffold with Anti-Infective Capability for Prevention of Perioperative Bacterial Infections. <i>ACS Biomaterials Science and Engineering</i> , 2015 , 1, 1324-1334	5.5	20
132	Novel gradient casting method provides high-throughput assessment of blended polyester poly(lactic-co-glycolic acid) thin films for parameter optimization. <i>Acta Biomaterialia</i> , 2012 , 8, 2263-70	10.8	20
131	High-throughput screening of PLGA thin films utilizing hydrophobic fluorescent dyes for hydrophobic drug compounds. <i>Journal of Pharmaceutical Sciences</i> , 2011 , 100, 4317-29	3.9	20
130	Surface Immobilization of Nano-Silver on Polymeric Medical Devices to Prevent Bacterial Biofilm Formation. <i>Pathogens</i> , 2019 , 8,	4.5	19
129	Induction of myogenic differentiation of human mesenchymal stem cells cultured on Notch agonist (Jagged-1) modified biodegradable scaffold surface. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 1652-61	9.5	19
128	Engineering of erythrocyte-based drug carriers: control of protein release and bioactivity. <i>Journal of Materials Science: Materials in Medicine</i> , 2012 , 23, 63-71	4.5	19
127	Modulating release of ranibizumab and aflibercept from thiolated chitosan-based hydrogels for potential treatment of ocular neovascularization. <i>Expert Opinion on Drug Delivery</i> , 2017 , 14, 913-925	8	19
126	Conformational behavior of fibrinogen on topographically modified polymer surfaces. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 10301-8	3.6	19
125	A Simple Method for Obtaining the Information of Orientation Distribution Using Polarized Raman Spectroscopy: Orientation Study of Structural Units in Poly(lactic acid). <i>Macromolecules</i> , 2011 , 44, 2120-2131	5.5	18
124	A novel biodegradable septal defect occluder: the "Chinese Lantern" design, proof of concept. <i>Innovations: Technology and Techniques in Cardiothoracic and Vascular Surgery</i> , 2011 , 6, 221-30	1.5	18
123	Layer-by-layer microcapsules templated on erythrocyte ghost carriers. <i>International Journal of Pharmaceutics</i> , 2011 , 415, 211-7	6.5	18
122	Polymer blends and polymer composites for cardiovascular implants. <i>European Polymer Journal</i> , 2021 , 146, 110249	5.2	18
121	Synthesis and antitumor activity of lapathoside D and its analogs. <i>European Journal of Medicinal Chemistry</i> , 2012 , 53, 1-12	6.8	17
120	Synthesis and antiproliferative activity of helonioside A, 3',4',6'-tri-O-feruloylsucrose, lapathoside C and their analogs. <i>European Journal of Medicinal Chemistry</i> , 2012 , 58, 418-30	6.8	17
119	Optimization of subconjunctival biodegradable microfilms for sustained drug delivery to the anterior segment in a small animal model 2013 , 54, 2607-15		17
118	A new insight for an old system: protein-PEG colocalization in relation to protein release from PCL/PEG blends. <i>Molecular Pharmaceutics</i> , 2011 , 8, 2173-82	5.6	17

117	The short-term effect on restenosis and thrombosis of a cobalt-chromium stent eluting two drugs in a porcine coronary artery model. <i>Journal of Interventional Cardiology</i> , 2009 , 22, 466-78	1.8	17
116	A fully degradable tracheal stent: in vitro and in vivo characterization of material degradation. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2012 , 100, 693-9	3.5	16
115	Formation of a nano-patterning NiTi surface with Ni-depleted superficial layer to promote corrosion resistance and endothelial cell-material interaction. <i>Journal of Materials Science: Materials in Medicine</i> , 2013 , 24, 105-14	4.5	16
114	Characterization of liposomal carriers for the trans-scleral transport of Ranibizumab. <i>Scientific Reports</i> , 2017 , 7, 16803	4.9	16
113	Biodegradable elastomers based on ABA triblocks: influence of end-block crystallinity on elastomeric character. <i>Polymer International</i> , 2012 , 61, 43-50	3.3	16
112	Adhesion, proliferation, and gene expression profile of human umbilical vein endothelial cells cultured on bilayered polyelectrolyte coatings composed of glycosaminoglycans. <i>Biointerphases</i> , 2010 , 5, FA53-62	1.8	16
111	Triblock copolymers of ϵ -caprolactone, trimethylene carbonate, and L-lactide: effects of using random copolymer as hard-block. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2012 , 6, 80-8	4.1	15
110	Fabrication of smart COC chips: Advantages of N-vinylpyrrolidone (NVP) monomer over other hydrophilic monomers. <i>Sensors and Actuators B: Chemical</i> , 2013 , 178, 86-95	8.5	15
109	Effect of polymer type on the dynamics of phase inversion and drug release in injectable in situ gelling systems. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2012 , 23, 251-66	3.5	15
108	Characterization and degradation of elastomeric four-armed star copolymers based on caprolactone and L-lactide. <i>Journal of Biomedical Materials Research - Part A</i> , 2012 , 100, 3436-45	5.4	15
107	Single-layer graphene oxide sheet: a novel substrate for dip-pen nanolithography. <i>Chemical Communications</i> , 2011 , 47, 10070-2	5.8	15
106	Evaluation of sustained release of PLC-loaded prednisolone acetate microfilm on postoperative inflammation in an experimental model of glaucoma filtration surgery. <i>Current Eye Research</i> , 2011 , 36, 1123-8	2.9	15
105	Immobilization of recombinant vault nanoparticles on solid substrates. <i>ACS Nano</i> , 2010 , 4, 1417-24	16.7	15
104	MagnetBNIPA hydrogels for bioengineering applications. <i>Journal of Materials Science</i> , 2009 , 44, 1381-1387	4.3	15
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