

# Subramanian Venkatraman

## List of Publications by Year in descending order

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269  
papers

12,175  
citations

29994

54  
h-index

35952

97  
g-index

273  
all docs

273  
docs citations

273  
times ranked

17508  
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-assembled cationic peptide nanoparticles as an efficient antimicrobial agent. <i>Nature Nanotechnology</i> , 2009, 4, 457-463.	15.6	583
2	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, 255-265.	1.8	356
3	Porous polycaprolactone scaffold for cardiac tissue engineering fabricated by selective laser sintering. <i>Acta Biomaterialia</i> , 2010, 6, 2028-2034.	4.1	310
4	Photopolymerization of cell-encapsulating hydrogels: Crosslinking efficiency versus cytotoxicity. <i>Acta Biomaterialia</i> , 2012, 8, 1838-1848.	4.1	281
5	Accelerating the Translation of Nanomaterials in Biomedicine. <i>ACS Nano</i> , 2015, 9, 6644-6654.	7.3	279
6	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, 1509-1517.	5.7	246
7	Recent Advances in Chitosan-Based Carriers for Gene Delivery. <i>Marine Drugs</i> , 2019, 17, 381.	2.2	221
8	Sustained-release from nanocarriers: a review. <i>Journal of Controlled Release</i> , 2014, 193, 122-138.	4.8	212
9	Implanted cardiovascular polymers: Natural, synthetic and bio-inspired. <i>Progress in Polymer Science</i> , 2008, 33, 853-874.	11.8	209
10	Skin adhesives and skin adhesion. <i>Biomaterials</i> , 1998, 19, 1119-1136.	5.7	206
11	Modeling of drug release from bulk-degrading polymers. <i>International Journal of Pharmaceutics</i> , 2011, 418, 28-41.	2.6	190
12	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.	2.4	180
13	Controlled release from bioerodible polymers: effect of drug type and polymer composition. <i>Journal of Controlled Release</i> , 2005, 102, 333-344.	4.8	173
14	The effect of topography of polymer surfaces on platelet adhesion. <i>Biomaterials</i> , 2010, 31, 1533-1545.	5.7	166
15	Biodegradable stents with elastic memory. <i>Biomaterials</i> , 2006, 27, 1573-1578.	5.7	158
16	Release profiles in drug-eluting stents: Issues and uncertainties. <i>Journal of Controlled Release</i> , 2007, 120, 149-160.	4.8	154
17	Magnetic iron oxide nanoparticles: Synthesis and surface coating techniques for biomedical applications. <i>Chinese Physics B</i> , 2014, 23, 037503.	0.7	145
18	Modeling of drug release from biodegradable polymer blends. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2008, 70, 796-803.	2.0	144

#	ARTICLE	IF	CITATIONS
19	Drug delivery to the eye: what benefits do nanocarriers offer?. <i>Nanomedicine</i> , 2017, 12, 683-702.	1.7	143
20	Controlled release of sirolimus from a multilayered PLGA stent matrix. <i>Biomaterials</i> , 2006, 27, 5588-5595.	5.7	136
21	Contact guidance for cardiac tissue engineering using 3D bioprinted gelatin patterned hydrogel. <i>Biofabrication</i> , 2018, 10, 025003.	3.7	134
22	Micro- and Nano-engineered Cellular Responses for Soft Tissue Engineering and Biomedical Applications. <i>Small</i> , 2011, 7, 1361-1378.	5.2	127
23	Optimizing partition-controlled drug release from electrospun core-shell fibers. <i>International Journal of Pharmaceutics</i> , 2010, 392, 209-217.	2.6	125
24	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.	4.8	121
25	Microneedle-Assisted Topical Delivery of Photodynamically Active Mesoporous Formulation for Combination Therapy of Deep-Seated Melanoma. <i>ACS Nano</i> , 2018, 12, 11936-11948.	7.3	121
26	Polymeric micelles anchored with TAT for delivery of antibiotics across the blood-brain barrier. <i>Biopolymers</i> , 2008, 90, 617-623.	1.2	120
27	Importance of viscosity parameters in electrospinning: Of monolithic and core-shell fibers. <i>Materials Science and Engineering C</i> , 2012, 32, 1037-1042.	3.8	120
28	Micelle-like nanoparticles of PLA-PEG-PLA triblock copolymer as chemotherapeutic carrier. <i>International Journal of Pharmaceutics</i> , 2005, 298, 219-232.	2.6	117
29	Bioresorbable stents: Current and upcoming bioresorbable technologies. <i>International Journal of Cardiology</i> , 2017, 228, 931-939.	0.8	116
30	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.	2.6	109
31	Printing cell-laden gelatin constructs by free-form fabrication and enzymatic protein crosslinking. <i>Biomedical Microdevices</i> , 2015, 17, 16.	1.4	109
32	Water-Responsive Shape Recovery Induced Buckling in Biodegradable Photo-Cross-Linked Poly(ethylene Terephthalate) Overlock 10	7.6	109
33	Sustained Drug Release in Nanomedicine: A Long-Acting Nanocarrier-Based Formulation for Glaucoma. <i>ACS Nano</i> , 2014, 8, 419-429.	7.3	108
34	Bioprinting and Differentiation of Stem Cells. <i>Molecules</i> , 2016, 21, 1188.	1.7	108
35	Collapse pressures of biodegradable stents. <i>Biomaterials</i> , 2003, 24, 2105-2111.	5.7	104
36	Micelle-like nanoparticles of star-branched PEO-PLA copolymers as chemotherapeutic carrier. <i>Journal of Controlled Release</i> , 2005, 110, 20-33.	4.8	103

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37	Hyaluronic acid-based nanocomposite hydrogels for ocular drug delivery applications. <i>Journal of Biomedical Materials Research - Part A</i> , 2014, 102, 3056-3065.	2.1	102
38	Biohybrid cardiac ECM-based hydrogels improve long term cardiac function post myocardial infarction. <i>Acta Biomaterialia</i> , 2017, 50, 220-233.	4.1	99
39	Aminosilane Micropatterns on Hydroxyl-Terminated Substrates: Fabrication and Applications. <i>Langmuir</i> , 2010, 26, 5603-5609.	1.6	98
40	Magnetic PNIPA hydrogels for hyperthermia applications in cancer therapy. <i>Materials Science and Engineering C</i> , 2007, 27, 347-351.	3.8	86
41	In vitro and in vivo performance of a dual drug-eluting stent (DDES). <i>Biomaterials</i> , 2010, 31, 4382-4391.	5.7	84
42	Nanofibril scaffold assisted MEMS artificial hydrogel neuromasts for enhanced sensitivity flow sensing. <i>Scientific Reports</i> , 2016, 6, 19336.	1.6	80
43	Bioabsorbable radiopaque water-responsive shape memory embolization plug for temporary vascular occlusion. <i>Biomaterials</i> , 2016, 102, 98-106.	5.7	76
44	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.	1.1	76
45	Thick Acellular Heart Extracellular Matrix with Inherent Vasculature: A Potential Platform for Myocardial Tissue Regeneration. <i>Tissue Engineering - Part A</i> , 2012, 18, 2125-2137.	1.6	75
46	Nanomedicine for glaucoma: liposomes provide sustained release of latanoprost in the eye. <i>International Journal of Nanomedicine</i> , 2012, 7, 123.	3.3	73
47	Rheological properties of rodlike polymers in solution. 1. Linear and nonlinear steady-state behavior. <i>Macromolecules</i> , 1981, 14, 939-946.	2.2	69
48	Natural myocardial ECM patch drives cardiac progenitor based restoration even after scarring. <i>Acta Biomaterialia</i> , 2016, 44, 209-220.	4.1	69
49	Effect of pore size and interpore distance on endothelial cell growth on polymers. <i>Journal of Biomedical Materials Research - Part A</i> , 2008, 87A, 710-718.	2.1	65
50	Photosensitizer anchored gold nanorods for targeted combinational photothermal and photodynamic therapy. <i>Chemical Communications</i> , 2016, 52, 8854-8857.	2.2	64
51	Polymer blends and polymer composites for cardiovascular implants. <i>European Polymer Journal</i> , 2021, 146, 110249.	2.6	64
52	A novel bioabsorbable drug-eluting tracheal stent. <i>Laryngoscope</i> , 2011, 121, 2234-2239.	1.1	63
53	The effect of polyethylene glycol structure on paclitaxel drug release and mechanical properties of PLGA thin films. <i>Acta Biomaterialia</i> , 2011, 7, 1973-1983.	4.1	60
54	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, 303-309.	3.0	58

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55	Drug release from injectable depots: two different in vitro mechanisms. <i>Journal of Controlled Release</i> , 2004, 99, 207-216.	4.8	57
56	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.	3.8	56
57	Osteoblastic cell response on fluoridated hydroxyapatite coatings: the effect of magnesium incorporation. <i>Biomedical Materials (Bristol)</i> , 2010, 5, 054114.	1.7	54
58	Surface Functionalization of Nanoparticles to Control Cell Interactions and Drug Release. <i>Small</i> , 2012, 8, 2585-2594.	5.2	54
59	Layer-by-Layer Nanoparticles as an Efficient siRNA Delivery Vehicle for SPARC Silencing. <i>Small</i> , 2014, 10, 1790-1798.	5.2	53
60	Bio-inspired Micropatterned Platform to Steer Stem Cell Differentiation. <i>Small</i> , 2011, 7, 1416-1421.	5.2	52
61	Layer-by-Layer Polyelectrolyte-Polyester Hybrid Microcapsules for Encapsulation and Delivery of Hydrophobic Drugs. <i>Biomacromolecules</i> , 2013, 14, 2262-2271.	2.6	52
62	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, 3411-3422.	4.1	51
63	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.	3.8	51
64	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.	1.5	50
65	Polymer- and liposome-based nanoparticles in targeted drug delivery. <i>Frontiers in Bioscience - Scholar</i> , 2010, S2, 801-814.	0.8	50
66	Surface Modification of PMMA to Improve Adhesion to Corneal Substitutes in a Synthetic Core-Skirt Keratoprosthesis. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 21690-21702.	4.0	50
67	Bioresorbable Polymeric Scaffold in Cardiovascular Applications. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3444.	1.8	50
68	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.	3.2	49
69	Characterization of Solute Diffusion in a Polymer Using ATR-FTIR Spectroscopy and Bulk Transport Techniques. <i>Macromolecules</i> , 1994, 27, 5220-5222.	2.2	48
70	Some insight into hydrolytic scission mechanisms in bioerodible polyesters. <i>Journal of Applied Polymer Science</i> , 2006, 102, 3111-3117.	1.3	48
71	Effect of plasticization on heparin release from biodegradable matrices. <i>International Journal of Pharmaceutics</i> , 2004, 283, 89-96.	2.6	47
72	Osteoblastic cell response on magnesium-incorporated apatite coatings. <i>Applied Surface Science</i> , 2008, 255, 304-307.	3.1	47

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73	Biocompatibility and Biodegradation Studies of Subconjunctival Implants in Rabbit Eyes. PLoS ONE, 2011, 6, e22507.	1.1	47
74	Human Mesenchymal Stem Cell Behaviour On Direct Laser Micropatterned Electrospun Scaffolds with Hierarchical Structures. Macromolecular Bioscience, 2013, 13, 299-310.	2.1	47
75	Controlled-release nanotherapeutics: State of translation. Journal of Controlled Release, 2018, 284, 39-48.	4.8	47
76	Shape/temperature memory phenomena in un-crosslinked poly-ε-caprolactone (PCL). European Polymer Journal, 2015, 72, 282-295.	2.6	45
77	Shape memory in un-cross-linked biodegradable polymers. Journal of Biomaterials Science, Polymer Edition, 2008, 19, 175-191.	1.9	44
78	Shape memory/change effect in a double network nanocomposite tough hydrogel. European Polymer Journal, 2014, 58, 41-51.	2.6	44
79	A novel model and experimental analysis of hydrophilic and hydrophobic agent release from biodegradable polymers. Journal of Biomedical Materials Research - Part A, 2009, 90A, 1054-1065.	2.1	43
80	Cosolvent Effects on the Drug Release and Depot Swelling in Injectable In situ Depot-Forming Systems. Journal of Pharmaceutical Sciences, 2012, 101, 1783-1793.	1.6	43
81	The influence of additives in modulating drug delivery and degradation of PLGA thin films. NPG Asia Materials, 2013, 5, e54-e54.	3.8	43
82	Biomedical applications of shape-memory polymers: how practically useful are they?. Science China Chemistry, 2014, 57, 476-489.	4.2	42
83	Nitric Oxide-Delivering High-Density Lipoprotein-like Nanoparticles as a Biomimetic Nanotherapy for Vascular Diseases. ACS Applied Materials & Interfaces, 2018, 10, 6904-6916.	4.0	42
84	Sustained release of hydrophobic and hydrophilic drugs from a floating dosage form. International Journal of Pharmaceutics, 2007, 336, 159-165.	2.6	41
85	Structure formation in injectable poly(lactide-co-glycolide) depots. Journal of Controlled Release, 2003, 90, 345-354.	4.8	40
86	Adjustable paclitaxel release kinetics and its efficacy to inhibit smooth muscle cells proliferation. Journal of Controlled Release, 2008, 130, 9-14.	4.8	40
87	Pushing the Envelope in Tissue Engineering: <i>Ex Vivo</i> Production of Thick Vascularized Cardiac Extracellular Matrix Constructs. Tissue Engineering - Part A, 2015, 21, 1507-1519.	1.6	39
88	Surface Modification of Smooth Poly(l-lactic acid) Films for Gelatin Immobilization. ACS Applied Materials & Interfaces, 2012, 4, 687-693.	4.0	38
89	Biomaterials and design in occlusion devices for cardiac defects: A review. Acta Biomaterialia, 2014, 10, 1088-1101.	4.1	38
90	High-Density Lipoprotein-like Magnetic Nanostructures (HDL-MNS): Theranostic Agents for Cardiovascular Disease. Chemistry of Materials, 2017, 29, 2276-2282.	3.2	38

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91	Layer-by-layer coated nanoliposomes for oral delivery of insulin. <i>Nanoscale</i> , 2021, 13, 776-789.	2.8	38
92	Colloidal DNA Carriers for Direct Localization in Cell Compartments by pH Sensoring. <i>Biomacromolecules</i> , 2010, 11, 1779-1784.	2.6	37
93	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.	5.6	37
94	A bilayer swellable drug-eluting ureteric stent: Localized drug delivery to treat urothelial diseases. <i>Biomaterials</i> , 2018, 165, 25-38.	5.7	37
95	Bioprinted gelatin hydrogel platform promotes smooth muscle cell contractile phenotype maintenance. <i>Biomedical Microdevices</i> , 2018, 20, 32.	1.4	37
96	A Novel Amphiphilic Double-[60]Fullerene-Capped Triblock Copolymer. <i>Macromolecules</i> , 2005, 38, 9889-9893.	2.2	36
97	Study of stability and biophysical characterization of ranibizumab and aflibercept. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2016, 108, 156-167.	2.0	36
98	3D patterned substrates for bioartificial blood vessels – The effect of hydrogels on aligned cells on a biomaterial surface. <i>Acta Biomaterialia</i> , 2015, 26, 159-168.	4.1	35
99	Functionalization of the Polymeric Surface with Bioceramic Nanoparticles via a Novel, Nonthermal Dip Coating Method. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 35565-35577.	4.0	35
100	Bioabsorbable vascular scaffold overexpansion: insights from in vitro post-expansion experiments. <i>EuroIntervention</i> , 2016, 11, 1389-1399.	1.4	35
101	Block Copolymer –Stealth™ Nanoparticles for Chemotherapy: Interactions with Blood Cells In Vitro. <i>Advanced Functional Materials</i> , 2008, 18, 716-725.	7.8	34
102	Effects of transesterification and degradation on properties and structure of polycaprolactone–polylactide copolymers. <i>Polymer Degradation and Stability</i> , 2010, 95, 2596-2602.	2.7	34
103	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, 1-8.	1.1	34
104	Orientation and structure development in poly(lactide) under uniaxial deformation. <i>Acta Materialia</i> , 2008, 56, 5083-5090.	3.8	33
105	Understanding the Nano-topography Changes and Cellular Influences Resulting from the Surface Adsorption of Human Hair Keratins. <i>Advanced Healthcare Materials</i> , 2012, 1, 513-519.	3.9	33
106	Fully biodegradable septal defect occluder – A double umbrella design. <i>Catheterization and Cardiovascular Interventions</i> , 2010, 76, 711-718.	0.7	32
107	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, 606-617.	0.3	32
108	Materials technology in drug eluting balloons: Current and future perspectives. <i>Journal of Controlled Release</i> , 2016, 239, 92-106.	4.8	32

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109	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.	1.3	31
110	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, 87A, 1-7.	2.1	31
111	Surface modification of poly(L-lactic acid) with biomolecules to promote endothelialization. <i>Biointerphases</i> , 2010, 5, FA32-FA40.	0.6	31
112	Tuning Model Drug Release and Soft-Tissue Bioadhesion of Polyester Films by Plasma Post-Treatment. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 5749-5758.	4.0	31
113	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.	2.1	31
114	Study of the initial stages of drug release from a degradable matrix of poly(D,L-lactide-co-glycolide). <i>Biomaterials</i> , 2004, 25, 813-821.	5.7	30
115	Characterization of liposomal carriers for the trans-scleral transport of Ranibizumab. <i>Scientific Reports</i> , 2017, 7, 16803.	1.6	30
116	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.	1.3	29
117	Hydrolytic degradation characteristics of irradiated multi-layered PLGA films. <i>International Journal of Pharmaceutics</i> , 2008, 360, 228-230.	2.6	29
118	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.	2.7	29
119	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.	2.4	29
120	Bioresorbable metals in cardiovascular stents: Material insights and progress. <i>Materialia</i> , 2020, 12, 100727.	1.3	29
121	Low-temperature (below T <sub>g</sub> ) 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.	6.7	28
122	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.	3.8	28
123	Thermoplastic biodegradable elastomers based on $\epsilon$ -caprolactone and L-lactide block co-polymers: A new synthetic approach. <i>Acta Biomaterialia</i> , 2010, 6, 4261-4270.	4.1	26
124	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.	2.7	26
125	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, 2013-2027.	1.7	26
126	Has nanomedicine lived up to its promise?. <i>Nanotechnology</i> , 2014, 25, 372501.	1.3	26



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127	Radiopaque Fully Degradable Nanocomposites for Coronary Stents. <i>Scientific Reports</i> , 2018, 8, 17409.	1.6	26
128	Surface Immobilization of Nano-Silver on Polymeric Medical Devices to Prevent Bacterial Biofilm Formation. <i>Pathogens</i> , 2019, 8, 93.	1.2	26
129	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, 620-630.	1.1	25
130	A biodegradable ocular implant for long-term suppression of intraocular pressure. <i>Drug Delivery and Translational Research</i> , 2015, 5, 469-479.	3.0	25
131	Nanoscale Controlled Enzymatic Degradation of Poly(L-lactic acid) Films Using Diphenyl Nanolithography. <i>Small</i> , 2011, 7, 226-229.	5.2	24
132	Modeling shape memory effect in uncrosslinked amorphous biodegradable polymer. <i>Polymer</i> , 2011, 52, 874-880.	1.8	24
133	Induction of Myogenic Differentiation of Human Mesenchymal Stem Cells Cultured on Notch Agonist (Jagged-1) Modified Biodegradable Scaffold Surface. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 1652-1661.	4.0	24
134	Surface Modifications of the PMMA Optic of a Keratoprosthesis to Improve Biointegration. <i>Cornea</i> , 2017, 36, S15-S25.	0.9	24
135	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.	1.1	24
136	Synthesis and antitumor activity of lapathoside D and its analogs. <i>European Journal of Medicinal Chemistry</i> , 2012, 53, 1-12.	2.6	23
137	Interpenetrating Network of Alginate-Human Adipose Extracellular Matrix Hydrogel for Islet Cells Encapsulation. <i>Macromolecular Rapid Communications</i> , 2020, 41, e2000275.	2.0	23
138	Conformational behavior of fibrinogen on topographically modified polymer surfaces. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 10301.	1.3	22
139	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.	2.2	22
140	High-throughput screening of PLGA thin films utilizing hydrophobic fluorescent dyes for hydrophobic drug compounds. <i>Journal of Pharmaceutical Sciences</i> , 2011, 100, 4317-4329.	1.6	22
141	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, 418-430.	2.6	22
142	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.	1.7	22
143	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.	2.6	22
144	Polymeric Nanomaterials. , 2019, , 557-653.		22

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145	A Novel Biodegradable Septal Defect Occluder the “Chinese Lantern” Design, Proof of Concept. Innovations: Technology and Techniques in Cardiothoracic and Vascular Surgery, 2011, 6, 221-230.	0.4	21
146	Layer-by-layer microcapsules templated on erythrocyte ghost carriers. International Journal of Pharmaceutics, 2011, 415, 211-217.	2.6	21
147	Novel gradient casting method provides high-throughput assessment of blended polyester poly(lactic-co-glycolic acid) thin films for parameter optimization. Acta Biomaterialia, 2012, 8, 2263-2270.	4.1	21
148	Fabrication of smart COC chips: Advantages of N-vinylpyrrolidone (NVP) monomer over other hydrophilic monomers. Sensors and Actuators B: Chemical, 2013, 178, 86-95.	4.0	21
149	Liposomal Nanotherapy for Treatment of Atherosclerosis. Advanced Healthcare Materials, 2020, 9, e2000465.	3.9	20
150	The Short-Term Effect on Restenosis and Thrombosis of a Cobalt-Chromium Stent Eluting Two Drugs in a Porcine Coronary Artery Model. Journal of Interventional Cardiology, 2009, 22, 466-478.	0.5	19
151	A New Insight for an Old System: Protein-PEG Colocalization in Relation to Protein Release from PCL/PEG Blends. Molecular Pharmaceutics, 2011, 8, 2173-2182.	2.3	19
152	Formation of a nano-patterning NiTi surface with Ni-depleted superficial layer to promote corrosion resistance and endothelial cell-material interaction. Journal of Materials Science: Materials in Medicine, 2013, 24, 105-114.	1.7	19
153	Optimization of Subconjunctival Biodegradable Microfilms for Sustained Drug Delivery to the Anterior Segment in a Small Animal Model. , 2013, 54, 2607.		19
154	Engineered nanoparticles for the detection, treatment and prevention of atherosclerosis: how close are we?. Drug Discovery Today, 2017, 22, 1438-1446.	3.2	19
155	Magnet-“PNIPA hydrogels for bioengineering applications. Journal of Materials Science, 2009, 44, 1381-1387.	1.7	18
156	A fully degradable tracheal stent: <i>in vitro</i> and <i>in vivo</i> characterization of material degradation. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2012, 100B, 693-699.	1.6	18
157	A Biodegradable, Sustained-Released, Prednisolone Acetate Microfilm Drug Delivery System Effectively Prolongs Corneal Allograft Survival in the Rat Keratoplasty Model. PLoS ONE, 2013, 8, e70419.	1.1	18
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