

# Maryam Tabrizian

## List of Publications by Year in descending order

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176  
papers

9,804  
citations

57681

46  
h-index

45040

94  
g-index

177  
all docs

177  
docs citations

177  
times ranked

15679  
citing authors

#	ARTICLE	IF	CITATIONS
1	Magneto-aerotactic bacteria deliver drug-containing nanoliposomes to tumour hypoxic regions. <i>Nature Nanotechnology</i> , 2016, 11, 941-947.	15.6	810
2	Towards integrated and sensitive surface plasmon resonance biosensors: A review of recent progress. <i>Biosensors and Bioelectronics</i> , 2007, 23, 151-160.	5.3	710
3	Microfluidic designs and techniques using lab-on-a-chip devices for pathogen detection for point-of-care diagnostics. <i>Lab on A Chip</i> , 2012, 12, 3249.	3.1	404
4	A review of digital microfluidics as portable platforms for lab-on a-chip applications. <i>Lab on A Chip</i> , 2016, 16, 2376-2396.	3.1	354
5	Bioactive Coatings of Endovascular Stents Based on Polyelectrolyte Multilayers. <i>Biomacromolecules</i> , 2003, 4, 1564-1571.	2.6	302
6	Protein release kinetics for core-shell hybrid nanoparticles based on the layer-by-layer assembly of alginate and chitosan on liposomes. <i>Biomaterials</i> , 2008, 29, 1207-1215.	5.7	245
7	Delivery of recombinant bone morphogenetic proteins for bone regeneration and repair. Part A: Current challenges in BMP delivery. <i>Biotechnology Letters</i> , 2009, 31, 1817-1824.	1.1	202
8	Cell line-dependent internalization pathways and intracellular trafficking determine transfection efficiency of nanoparticle vectors. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2008, 68, 676-687.	2.0	201
9	Delivery Platform for Hydrophobic Drugs: A Prodrug Approach Combined with Self-Assembled Multilayers. <i>Journal of the American Chemical Society</i> , 2005, 127, 1626-1627.	6.6	196
10	Effect of experimental parameters on the formation of alginate-chitosan nanoparticles and evaluation of their potential application as DNA carrier. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2005, 16, 43-56.	1.9	190
11	Nanocoatings onto Arteries via Layer-by-Layer Deposition: A Toward the in Vivo Repair of Damaged Blood Vessels. <i>Journal of the American Chemical Society</i> , 2003, 125, 7494-7495.	6.6	182
12	Toward Resolving the Challenges of Sepsis Diagnosis. <i>Clinical Chemistry</i> , 2004, 50, 1301-1314.	1.5	178
13	Cellular and molecular interactions between MC3T3-E1 pre-osteoblasts and nanostructured titanium produced by high-pressure torsion. <i>Biomaterials</i> , 2007, 28, 3887-3895.	5.7	178
14	Integration and detection of biochemical assays in digital microfluidic LOC devices. <i>Lab on A Chip</i> , 2010, 10, 418-431.	3.1	177
15	Advances in using chitosan-based nanoparticles for <i>in vitro</i> and <i>in vivo</i> drug and gene delivery. <i>Expert Opinion on Drug Delivery</i> , 2010, 7, 1191-1207.	2.4	166
16	Dielectric spectroscopy as a viable biosensing tool for cell and tissue characterization and analysis. <i>Biosensors and Bioelectronics</i> , 2013, 49, 348-359.	5.3	155
17	Delivery of recombinant bone morphogenetic proteins for bone regeneration and repair. Part B: Delivery systems for BMPs in orthopaedic and craniofacial tissue engineering. <i>Biotechnology Letters</i> , 2009, 31, 1825-1835.	1.1	154
18	Effect of cobalt and chromium ions on human MG-63 osteoblasts in vitro: Morphology, cytotoxicity, and oxidative stress. <i>Biomaterials</i> , 2006, 27, 3351-3360.	5.7	148

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19	Adhesion based detection, sorting and enrichment of cells in microfluidic Lab-on-Chip devices. Lab on A Chip, 2010, 10, 3043.	3.1	144
20	Nitinol versus stainless steel stents: acute thrombogenicity study in an ex vivo porcine model. Biomaterials, 2002, 23, 2997-3005.	5.7	132
21	Effects of alginate inclusion on the vector properties of chitosan-based nanoparticles. Journal of Controlled Release, 2006, 115, 354-361.	4.8	131
22	The effect of extracellular matrix components on the preservation of human islet function in vitro. Biomaterials, 2010, 31, 1676-1682.	5.7	130
23	Biochip functionalization using electrowetting-on-dielectric digital microfluidics for surface plasmon resonance imaging detection of DNA hybridization. Biosensors and Bioelectronics, 2009, 24, 2218-2224.	5.3	124
24	Three-dimensional growth of differentiating MC3T3-E1 pre-osteoblasts on porous titanium scaffolds. Biomaterials, 2005, 26, 7319-7328.	5.7	122
25	Nanostructuring of a Titanium Material by High-Pressure Torsion Improves Pre-Osteoblast Attachment. Advanced Materials, 2007, 19, 1069-1073.	11.1	121
26	In vitro and in vivo biocompatibility of chitosan-xanthan polyionic complex. , 2000, 51, 107-116.		120
27	Biorecognition through Layer-by-Layer Polyelectrolyte Assembly: In-Situ Hybridization on Living Cells. Biomacromolecules, 2006, 7, 2742-2750.	2.6	111
28	Enzymatically-generated fluorescent detection in micro-channels with internal magnetic mixing for the development of parallel microfluidic ELISA. Lab on A Chip, 2006, 6, 555.	3.1	107
29	Effect of genipin cross-linking on the cellular adhesion properties of layer-by-layer assembled polyelectrolyte films. Biomaterials, 2009, 30, 4463-4470.	5.7	107
30	Long-term in vitro human pancreatic islet culture using three-dimensional microfabricated scaffolds. Biomaterials, 2011, 32, 1536-1542.	5.7	102
31	Factors influencing the transfection efficiency of ultra low molecular weight chitosan/hyaluronic acid nanoparticles. Biomaterials, 2009, 30, 2625-2631.	5.7	101
32	Two-dimensional droplet-based surface plasmon resonance imaging using electrowetting-on-dielectric microfluidics. Lab on A Chip, 2009, 9, 473-475.	3.1	98
33	Oligodendrocyte-protection and remyelination post-spinal cord injuries: A review. Progress in Neurobiology, 2012, 96, 322-339.	2.8	95
34	Study of biodegradation behavior of chitosan-xanthan microspheres in simulated physiological media. Journal of Biomedical Materials Research Part B, 2000, 53, 592-599.	3.0	90
35	An ultra-rapid acoustic micromixer for synthesis of organic nanoparticles. Lab on A Chip, 2019, 19, 3316-3325.	3.1	88
36	Enhanced surface plasmon resonance imaging detection of DNA hybridization on periodic gold nanoposts. Optics Letters, 2007, 32, 3092.	1.7	85

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37	Composite biopolymers for bone regeneration enhancement in bony defects. <i>Biomaterials Science</i> , 2016, 4, 25-39.	2.6	78
38	Nanostructured digital microfluidics for enhanced surface plasmon resonance imaging. <i>Biosensors and Bioelectronics</i> , 2011, 26, 2053-2059.	5.3	74
39	Genipin-crosslinked chitosan/poly-L-lysine gels promote fibroblast adhesion and proliferation. <i>Carbohydrate Polymers</i> , 2014, 108, 91-98.	5.1	74
40	Designed Biointerface Using Near-Infrared Quantum Dots for Ultrasensitive Surface Plasmon Resonance Imaging Biosensors. <i>Analytical Chemistry</i> , 2011, 83, 5222-5229.	3.2	71
41	Hemocompatibility of new ionic polyurethanes: influence of carboxylic group insertion modes. <i>Biomaterials</i> , 2004, 25, 3473-3483.	5.7	63
42	Microfluidic ELISA on non-passivated PDMS chip using magnetic bead transfer inside dual networks of channels. <i>Lab on A Chip</i> , 2007, 7, 1546.	3.1	62
43	Enhanced SPR response from patterned immobilization of surface bioreceptors on nano-gratings. <i>Biosensors and Bioelectronics</i> , 2009, 24, 3043-3048.	5.3	62
44	Patterning Multiplex Protein Microarrays in a Single Microfluidic Channel. <i>Analytical Chemistry</i> , 2012, 84, 1012-1018.	3.2	62
45	Pancreatic Islet Culture and Preservation Strategies: Advances, Challenges, and Future Outlook. <i>Cell Transplantation</i> , 2010, 19, 1523-1535.	1.2	58
46	The significance of crystallographic texture of titanium alloy substrates on pre-osteoblast responses. <i>Biomaterials</i> , 2006, 27, 3532-9.	5.7	50
47	Sub-femtomole detection of 16s rRNA from <i>Legionella pneumophila</i> using surface plasmon resonance imaging. <i>Biosensors and Bioelectronics</i> , 2014, 52, 129-135.	5.3	49
48	Biodegradable membrane-covered stent from chitosan-based polymers. <i>Journal of Biomedical Materials Research - Part A</i> , 2005, 75A, 556-566.	2.1	47
49	Real-Time QCM-D Immunoassay through Oriented Antibody Immobilization Using Cross-Linked Hydrogel Biointerfaces. <i>Langmuir</i> , 2005, 21, 5966-5973.	1.6	46
50	Selective and High Dynamic Range Assay Format for Multiplex Detection of Pathogenic <i>Pseudomonas aeruginosa</i> , <i>Salmonella typhimurium</i> , and <i>Legionella pneumophila</i> RNAs Using Surface Plasmon Resonance Imaging. <i>Analytical Chemistry</i> , 2017, 89, 7802-7807.	3.2	45
51	Quantification of Low-Picomolar Concentrations of TNF- $\alpha$ in Serum Using the Dual-Network Microfluidic ELISA Platform. <i>Analytical Chemistry</i> , 2008, 80, 5160-5167.	3.2	43
52	Microfluidic perfusion systems for secretion fingerprint analysis of pancreatic islets: applications, challenges and opportunities. <i>Lab on A Chip</i> , 2016, 16, 409-431.	3.1	43
53	InGaP@ZnS-Enriched Chitosan Nanoparticles: A Versatile Fluorescent Probe for Deep-Tissue Imaging. <i>Advanced Functional Materials</i> , 2007, 17, 3724-3730.	7.8	42
54	Design of a universal biointerface for sensitive, selective, and multiplex detection of biomarkers using surface plasmon resonance imaging. <i>Analyst, The</i> , 2013, 138, 6052.	1.7	42

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55	Multiplex Surface Plasmon Resonance Imaging-Based Biosensor for Human Pancreatic Islets Hormones Quantification. <i>Analytical Chemistry</i> , 2018, 90, 3132-3139.	3.2	41
56	Substrate-Mediated Gene Delivery from Glycol-Chitosan/Hyaluronic Acid Polyelectrolyte Multilayer Films. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 524-531.	4.0	39
57	Injectable Chitosan-Based Scaffolds in Regenerative Medicine and their Clinical Translatability. <i>Advanced Healthcare Materials</i> , 2014, 3, 1529-1545.	3.9	39
58	Alternating current dielectrophoresis of biomacromolecules: The interplay of electrokinetic effects. <i>Sensors and Actuators B: Chemical</i> , 2017, 252, 391-408.	4.0	39
59	One-step fabrication of apatite-chitosan scaffold as a potential injectable construct for bone tissue engineering. <i>Carbohydrate Polymers</i> , 2019, 203, 60-70.	5.1	38
60	Liposome technology for cardiovascular disease treatment and diagnosis. <i>Expert Opinion on Drug Delivery</i> , 2012, 9, 249-265.	2.4	37
61	Immunohistochemical Localization of Bone Morphogenetic Protein-signaling Smads during Long-bone Distraction Osteogenesis. <i>Journal of Histochemistry and Cytochemistry</i> , 2006, 54, 407-415.	1.3	36
62	Investigation of the binding of Cr(III) complexes to bovine and human serum proteins: A proteomic approach. <i>Journal of Biomedical Materials Research - Part A</i> , 2010, 94A, 214-222.	2.1	36
63	Biomimetic Hemocompatible Coatings through Immobilization of Hyaluronan Derivatives on Metal Surfaces. <i>Langmuir</i> , 2008, 24, 11834-11841.	1.6	32
64	Biocompatibility and safety of a hybrid core-shell nanoparticulate OP-1 delivery system intramuscularly administered in rats. <i>Biomaterials</i> , 2010, 31, 2746-2754.	5.7	32
65	Investigation of the Viability, Adhesion, and Migration of Human Fibroblasts in a Hyaluronic Acid/Gelatin Microgel-Reinforced Composite Hydrogel for Vocal Fold Tissue Regeneration. <i>Advanced Healthcare Materials</i> , 2016, 5, 255-265.	3.9	32
66	Modulating the release kinetics through the control of the permeability of the layer-by-layer assembly: a review. <i>Expert Opinion on Drug Delivery</i> , 2009, 6, 585-597.	2.4	31
67	The potential roles of nanobiomaterials in distraction osteogenesis. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2015, 11, 1-18.	1.7	31
68	Frequency hopping dielectrophoresis as a new approach for microscale particle and cell enrichment. <i>Sensors and Actuators B: Chemical</i> , 2019, 286, 493-500.	4.0	31
69	Review of stent coating strategies: Clinical insights. <i>Materials Science and Technology</i> , 2008, 24, 1127-1143.	0.8	30
70	Rapid and multiplex detection of Legionella's RNA using digital microfluidics. <i>Lab on A Chip</i> , 2015, 15, 1609-1618.	3.1	30
71	Radionuclides-hyaluronan-conjugate thromboresistant coatings to prevent in-stent restenosis. <i>Biomaterials</i> , 2004, 25, 3895-3905.	5.7	29
72	Modulated release of OP-1 and enhanced preosteoblast differentiation using a core-shell nanoparticulate system. <i>Journal of Biomedical Materials Research - Part A</i> , 2009, 91A, 919-928.	2.1	29

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73	Preclinical safety study of a combined therapeutic bone wound dressing for osteoarticular regeneration. <i>Nature Communications</i> , 2019, 10, 2156.	5.8	29
74	Phase-controlled field-effect micromixing using AC electroosmosis. <i>Microsystems and Nanoengineering</i> , 2020, 6, 60.	3.4	29
75	Early injection of OP-1 during distraction osteogenesis accelerates new bone formation in rabbits. <i>Growth Factors</i> , 2006, 24, 172-183.	0.5	28
76	A hybrid rhOP-1 delivery system enhances new bone regeneration and consolidation in a rabbit model of distraction osteogenesis. <i>Growth Factors</i> , 2010, 28, 44-55.	0.5	28
77	Expression of Concern: Nanodimensional and Nanocrystalline Apatites and Other Calcium Orthophosphates in Biomedical Engineering, Biology and Medicine. <i>Materials</i> 2009, 2, 1975-2045. <i>Materials</i> , 2016, 9, 752.	1.3	28
78	Investigation of probiotic bacteria as dental caries and periodontal disease biotherapeutics. <i>Beneficial Microbes</i> , 2014, 5, 447-460.	1.0	27
79	Purine-crosslinked injectable chitosan sponges promote oligodendrocyte progenitor cells attachment and differentiation. <i>Biomaterials Science</i> , 2015, 3, 279-287.	2.6	27
80	The Multifaceted Uses and Therapeutic Advantages of Nanoparticles for Atherosclerosis Research. <i>Materials</i> , 2018, 11, 754.	1.3	27
81	In vitro and in vivo investigation of osteogenic properties of self-contained phosphate-releasing injectable purine-crosslinked chitosan-hydroxyapatite constructs. <i>Scientific Reports</i> , 2020, 10, 11603.	1.6	27
82	Silencing Red Blood Cell Recognition toward Anti-A Antibody by Means of Polyelectrolyte Layer-by-Layer Assembly in a Two-Dimensional Model System. <i>Langmuir</i> , 2009, 25, 14071-14078.	1.6	26
83	Rapid and specific SPRi detection of <i>L. pneumophila</i> in complex environmental water samples. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 5541-5545.	1.9	26
84	Determination of surface-induced platelet activation by applying time-dependency dissipation factor versus frequency using quartz crystal microbalance with dissipation. <i>Journal of the Royal Society Interface</i> , 2011, 8, 988-997.	1.5	25
85	Separation of rare oligodendrocyte progenitor cells from brain using a high-throughput multilayer thermoplastic-based microfluidic device. <i>Biomaterials</i> , 2013, 34, 5588-5593.	5.7	24
86	Towards on-line monitoring of cell growth in microporous scaffolds: Utilization and interpretation of complex permittivity measurements. <i>Biotechnology and Bioengineering</i> , 2003, 84, 343-350.	1.7	23
87	Complex Permittivity Measurement as a New Noninvasive Tool for Monitoring In Vitro Tissue Engineering and Cell Signature Through the Detection of Cell Proliferation, Differentiation, and Pretissue Formation. <i>IEEE Transactions on Nanobioscience</i> , 2004, 3, 243-250.	2.2	23
88	Multilineage Constructs for Scaffold-Based Tissue Engineering: A Review of Tissue-Specific Challenges. <i>Advanced Healthcare Materials</i> , 2018, 7, 1700734.	3.9	23
89	Rapid, Guanosine 5'-Diphosphate-Induced, Gelation of Chitosan Sponges as Novel Injectable Scaffolds for Soft Tissue Engineering and Drug Delivery Applications. <i>Advanced Healthcare Materials</i> , 2013, 2, 1126-1130.	3.9	22
90	Small Players Ruling the Hard Game: siRNA in Bone Regeneration. <i>Journal of Bone and Mineral Research</i> , 2016, 31, 475-487.	3.1	22

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91	In vitro thrombogenicity investigation of new water-dispersible polyurethane anionomers bearing carboxylate groups. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2005, 16, 335-351.	1.9	21
92	Design and analysis of a spectro-angular surface plasmon resonance biosensor operating in the visible spectrum. <i>Review of Scientific Instruments</i> , 2014, 85, 093107.	0.6	21
93	Polyelectrolyte Multilayer Coating of 3D Scaffolds Enhances Tissue Growth and Gene Delivery: Non-Invasive and Label-Free Assessment. <i>Advanced Healthcare Materials</i> , 2014, 3, 572-580.	3.9	21
94	Characterization of Nanoscale Loaded Liposomes Produced by 2D Hydrodynamic Flow Focusing. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 502-513.	2.6	21
95	Nanoimprinted plastic substrates for enhanced surface plasmon resonance imaging detection. <i>Optics Express</i> , 2009, 17, 20386.	1.7	20
96	A combinatorial approach towards achieving an injectable, self-contained, phosphate-releasing scaffold for promoting biomineralization in critical size bone defects. <i>Acta Biomaterialia</i> , 2016, 29, 389-397.	4.1	20
97	Interfacial capacitance immunosensing using interdigitated electrodes: the effect of insulation/immobilization chemistry. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 15787-15797.	1.3	20
98	Effect of experimental parameters on their in vitro release kinetics of transforming growth factor $\beta 1$ from coral particles. <i>Journal of Biomedical Materials Research Part B</i> , 2002, 59, 403-410.	3.0	19
99	A Miniaturized Multipurpose Platform for Rapid, Label-Free, and Simultaneous Separation, Patterning, and In Vitro Culture of Primary and Rare Cells. <i>Advanced Healthcare Materials</i> , 2014, 3, 253-260.	3.9	19
100	Osseointegrated membranes based on electro-spun TiO <sub>2</sub> /hydroxyapatite/polyurethane for oral maxillofacial surgery. <i>Materials Science and Engineering C</i> , 2020, 108, 110479.	3.8	19
101	Titanium crystal orientation as a tool for the improved and regulated cell attachment. <i>Journal of Biomedical Materials Research - Part A</i> , 2009, 91A, 656-662.	2.1	18
102	Two-dimensional and three-dimensional viability measurements of adult stem cells with optical coherence phase microscopy. <i>Journal of Biomedical Optics</i> , 2011, 16, 086003.	1.4	18
103	Dielectric spectroscopy for non-invasive monitoring of epithelial cell differentiation within three-dimensional scaffolds. <i>Physics in Medicine and Biology</i> , 2012, 57, 5097-5112.	1.6	18
104	Motility imaging via optical coherence phase microscopy enables label-free monitoring of tissue growth and viability in 3D tissue-engineering scaffolds. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2015, 9, 641-645.	1.3	18
105	Rapid Formation of Multicellular Spheroids in Boundary-Driven Acoustic Microstreams. <i>Small</i> , 2021, 17, e2101931.	5.2	18
106	Fabrication and characterization of patterned immobilization of quantum dots on metallic nano-gratings. <i>Biosensors and Bioelectronics</i> , 2008, 24, 970-975.	5.3	17
107	Quantifying Blood Platelet Morphological Changes by Dissipation Factor Monitoring in Multilayer Shells. <i>Langmuir</i> , 2008, 24, 3294-3299.	1.6	17
108	Electrohydrodynamic-Driven Micromixing for the Synthesis of Highly Monodisperse Nanoscale Liposomes. <i>ACS Applied Nano Materials</i> , 2020, 3, 4000-4013.	2.4	17



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109	Identification of two aptamers binding to Legionella pneumophila with high affinity and specificity. Scientific Reports, 2020, 10, 9145.	1.6	17
110	Imaging and organelle distribution of fluorescent InGaP/ZnS nanoparticles in glial cells. Nanomedicine, 2009, 4, 747-761.	1.7	16
111	Magnetic Resonance Signal-Enhancing Self-Assembled Coating for Endovascular Devices. Advanced Materials, 2005, 17, 826-830.	11.1	15
112	Enhanced MC3T3 preosteoblast viability and adhesion on polyelectrolyte multilayer films composed of glycolâ€modified chitosan and hyaluronic acid. Journal of Biomedical Materials Research - Part A, 2012, 100A, 518-526.	2.1	15
113	Microfluidic platform for assessing pancreatic islet functionality through dielectric spectroscopy. Biomicrofluidics, 2015, 9, 044125.	1.2	15
114	Monitoring of bacterial film formation and its breakdown with an angular-based surface plasmon resonance biosensor. Analyst, The, 2017, 142, 2386-2394.	1.7	15
115	Computer 3D controlled bacterial transports and aggregations of microbial adhered nano-components. Journal of Micro-Bio Robotics, 2014, 9, 23-28.	2.1	13
116	The bioconjugation mechanism of purine cross-linkers affects microstructure and cell response to ultra rapidly gelling purineâ€chitosan sponges. Journal of Materials Chemistry B, 2018, 6, 602-613.	2.9	13
117	The molecular structure of complexes formed by chromium or cobalt ions in simulated physiological fluids. Biomaterials, 2009, 30, 460-467.	5.7	12
118	A QCM-D sensing strategy for investigating the real-time effects of oxidative stress on the viscoelastic properties of pre-osteoblast cells. Sensors and Actuators B: Chemical, 2019, 293, 235-246.	4.0	12
119	VCAMâ€Targeted Gene Delivery Nanoparticles Localize to Inflamed Endothelial Cells and Atherosclerotic Plaques. Advanced Therapeutics, 2021, 4, 2000196.	1.6	12
120	One-Step Synthesis of Nanoliposomal Copper Diethyldithiocarbamate and Its Assessment for Cancer Therapy. Pharmaceutics, 2022, 14, 640.	2.0	12
121	2-Dioleoyl-sn-glycero-3-phosphocholine-based nanoliposomes as an effective delivery platform for 17âˆ²-estradiol. European Journal of Pharmaceutics and Biopharmaceutics, 2014, 86, 369-375.	2.0	11
122	SN-38 active loading in poly(lactic-co-glycolic acid) nanoparticles and assessment of their anticancer properties on COLO-205 human colon adenocarcinoma cells. Journal of Microencapsulation, 2015, 32, 784-793.	1.2	11
123	PolyDOPA Musselâ€inspired Coating as a Means for Hydroxyapatite Entrapment on Polytetrafluoroethylene Surface for Application in Periodontal Diseases. Macromolecular Bioscience, 2016, 16, 288-298.	2.1	11
124	Efficient in vitro delivery of Noggin siRNA enhances osteoblastogenesis. Heliyon, 2017, 3, e00450.	1.4	11
125	EFFECTS OF CRYSTAL SIZE AND ORIENTATION OF SUBSTRATES ON CELL ADHESION: IMPLICATION FOR MEDICAL IMPLANTS. International Journal of Modern Physics B, 2008, 22, 3069-3081.	1.0	10
126	Rigorous Coupled-Wave Analysis of Surface Plasmon Enhancement from Patterned Immobilization on Nanogratings. Journal of Sensors, 2009, 2009, 1-7.	0.6	10



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127	Design and development of Branched Poly(Å- aminoester) nanoparticles for Interleukin-10 gene delivery in a mouse model of atherosclerosis. <i>Acta Biomaterialia</i> , 2022, 143, 356-371.	4.1	10
128	Platelet adhesion and human umbilical vein endothelial cell cytocompatibility of biodegradable segmented polyurethanes prepared with 4,4- $\epsilon^2$ -methylene bis(cyclohexyl isocyanate), poly(caprolactone) diol and butanediol or dithioerythritol as chain extenders. <i>Journal of Biomaterials Applications</i> , 2013, 28, 270-277.	1.2	9
129	Real-time measurement of complex refractive indices with surface plasmon resonance. <i>Sensors and Actuators B: Chemical</i> , 2017, 245, 747-752.	4.0	9
130	Gold nanoparticle amplification strategies for multiplex SPRi-based immunosensing of human pancreatic islet hormones. <i>Analyst, The</i> , 2019, 144, 2541-2549.	1.7	9
131	Microwave-assisted synthesis of surface-enhanced Raman scattering nanoprobe for cellular sensing. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 122, 617-622.	2.5	8
132	Poly(DL-lactide-co- $\mu$ -caprolactone) and poly(DL-lactide-co-glycolide) blends for biomedical application: Physical properties, cell compatibility, and in vitro degradation behavior. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2016, 65, 741-750.	1.8	8
133	Washless Method Enables Multilayer Coating of an Aggregation-Prone Nanoparticulate Drug Delivery System with Enhanced Yields, Colloidal Stability, and Scalability. <i>Macromolecular Bioscience</i> , 2017, 17, 1600535.	2.1	8
134	Viscous Core Liposomes Increase siRNA Encapsulation and Provides Gene Inhibition When Slightly Positively Charged. <i>Pharmaceutics</i> , 2021, 13, 479.	2.0	8
135	Mussel-inspired antimicrobial coating on PTFE barrier membranes for guided tissue regeneration. <i>Biomedical Materials (Bristol)</i> , 2021, 16, 035035.	1.7	8
136	Enhancing metabolic activity and differentiation potential in adipose mesenchymal stem cells via high-resolution surface-acoustic-wave contactless patterning. <i>Microsystems and Nanoengineering</i> , 2022, 8, .	3.4	8
137	Nondestructive Online <i>&lt;emphasis&gt;In Vitro&lt;/emphasis&gt;</i> Monitoring of Pre-Osteoblast Cell Proliferation Within Microporous Polymer Scaffolds. <i>IEEE Transactions on Nanobioscience</i> , 2007, 6, 249-258.	2.2	7
138	Rapid, one-step fabrication and loading of nanoscale 1,2-distearoyl-sn-glycero-3-phosphocholine liposomes in a simple, double flow-focusing microfluidic device. <i>Biomicrofluidics</i> , 2015, 9, 046501.	1.2	7
139	Effect of chromium and cobalt ions on the expression of antioxidant enzymes in human U937 macrophage-like cells. <i>Journal of Biomedical Materials Research - Part A</i> , 2010, 94A, 419-425.	2.1	6
140	Dielectric spectroscopy platform to measure MCF10A epithelial cell aggregation as a model for spheroidal cell cluster analysis. <i>Analyst, The</i> , 2017, 142, 1601-1607.	1.7	6
141	Functionalization of Contacted Carbon Nanotube Forests by Dip Coating for High-Performance Biocathodes. <i>ChemElectroChem</i> , 2020, 7, 4685-4689.	1.7	6
142	Introducing an SPRi-based titration assay using aptamers for the detection of <i>Legionella pneumophila</i> . <i>Sensors and Actuators B: Chemical</i> , 2022, 351, 130933.	4.0	6
143	Modulating the Release Kinetics of Paclitaxel from Membrane-Covered Stents Using Different Loading Strategies. <i>Materials</i> , 2008, 1, 25-43.	1.3	5
144	Dielectric spectroscopy for monitoring human pancreatic islet differentiation within cell-seeded scaffolds in a perfusion bioreactor system. <i>Analyst, The</i> , 2015, 140, 6295-6305.	1.7	5

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145	Vocal Fold Tissue Regeneration: Investigation of the Viability, Adhesion, and Migration of Human Fibroblasts in a Hyaluronic Acid/Gelatin Microgel-Reinforced Composite Hydrogel for Vocal Fold Tissue Regeneration (Adv. Healthcare Mater. 2/2016). Advanced Healthcare Materials, 2016, 5, 188-188.	3.9	5
146	IL-10 Gene Transfection in Primary Endothelial Cells via Linear and Branched Poly( $\beta$ -amino ester) Nanoparticles Attenuates Inflammation in Stimulated Macrophages. ACS Applied Bio Materials, 2018, 1, 917-927.	2.3	5
147	A core-shell guanosine diphosphate crosslinked chitosan scaffold as a potential co-encapsulation platform. Carbohydrate Polymers, 2021, 256, 117499.	5.1	5
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