

Maryam Tabrizian

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4813528/publications.pdf>

Version: 2024-02-01

176
papers

9,804
citations

50276

46
h-index

39675

94
g-index

177
all docs

177
docs citations

177
times ranked

13925
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.	31.5	810
2	Towards integrated and sensitive surface plasmon resonance biosensors: A review of recent progress. <i>Biosensors and Bioelectronics</i> , 2007, 23, 151-160.	10.1	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.	6.0	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.	6.0	354
5	Bioactive Coatings of Endovascular Stents Based on Polyelectrolyte Multilayers. <i>Biomacromolecules</i> , 2003, 4, 1564-1571.	5.4	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.	11.4	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.	2.2	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.	4.3	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.	13.7	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.	3.5	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.	13.7	182
12	Toward Resolving the Challenges of Sepsis Diagnosis. <i>Clinical Chemistry</i> , 2004, 50, 1301-1314.	3.2	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.	11.4	178
14	Integration and detection of biochemical assays in digital microfluidic LOC devices. <i>Lab on A Chip</i> , 2010, 10, 418-431.	6.0	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.	5.0	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.	10.1	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.	2.2	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.	11.4	148

#	ARTICLE	IF	CITATIONS
19	Adhesion based detection, sorting and enrichment of cells in microfluidic Lab-on-Chip devices. Lab on A Chip, 2010, 10, 3043.	6.0	144
20	Nitinol versus stainless steel stents: acute thrombogenicity study in an ex vivo porcine model. Biomaterials, 2002, 23, 2997-3005.	11.4	132
21	Effects of alginate inclusion on the vector properties of chitosan-based nanoparticles. Journal of Controlled Release, 2006, 115, 354-361.	9.9	131
22	The effect of extracellular matrix components on the preservation of human islet function in vitro. Biomaterials, 2010, 31, 1676-1682.	11.4	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.	10.1	124
24	Three-dimensional growth of differentiating MC3T3-E1 pre-osteoblasts on porous titanium scaffolds. Biomaterials, 2005, 26, 7319-7328.	11.4	122
25	Nanostructuring of a Titanium Material by High-Pressure Torsion Improves Pre-Osteoblast Attachment. Advanced Materials, 2007, 19, 1069-1073.	21.0	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.	5.4	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.	6.0	107
29	Effect of genipin cross-linking on the cellular adhesion properties of layer-by-layer assembled polyelectrolyte films. Biomaterials, 2009, 30, 4463-4470.	11.4	107
30	Long-term in vitro human pancreatic islet culture using three-dimensional microfabricated scaffolds. Biomaterials, 2011, 32, 1536-1542.	11.4	102
31	Factors influencing the transfection efficiency of ultra low molecular weight chitosan/hyaluronic acid nanoparticles. Biomaterials, 2009, 30, 2625-2631.	11.4	101
32	Two-dimensional droplet-based surface plasmon resonance imaging using electrowetting-on-dielectric microfluidics. Lab on A Chip, 2009, 9, 473-475.	6.0	98
33	Oligodendrocyte-protection and remyelination post-spinal cord injuries: A review. Progress in Neurobiology, 2012, 96, 322-339.	5.7	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.	3.1	90
35	An ultra-rapid acoustic micromixer for synthesis of organic nanoparticles. Lab on A Chip, 2019, 19, 3316-3325.	6.0	88
36	Enhanced surface plasmon resonance imaging detection of DNA hybridization on periodic gold nanoposts. Optics Letters, 2007, 32, 3092.	3.3	85

#	ARTICLE	IF	CITATIONS
37	Composite biopolymers for bone regeneration enhancement in bony defects. <i>Biomaterials Science</i> , 2016, 4, 25-39.	5.4	78
38	Nanostructured digital microfluidics for enhanced surface plasmon resonance imaging. <i>Biosensors and Bioelectronics</i> , 2011, 26, 2053-2059.	10.1	74
39	Genipin-crosslinked chitosan/poly-L-lysine gels promote fibroblast adhesion and proliferation. <i>Carbohydrate Polymers</i> , 2014, 108, 91-98.	10.2	74
40	Designed Biointerface Using Near-Infrared Quantum Dots for Ultrasensitive Surface Plasmon Resonance Imaging Biosensors. <i>Analytical Chemistry</i> , 2011, 83, 5222-5229.	6.5	71
41	Hemocompatibility of new ionic polyurethanes: influence of carboxylic group insertion modes. <i>Biomaterials</i> , 2004, 25, 3473-3483.	11.4	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.	6.0	62
43	Enhanced SPR response from patterned immobilization of surface bioreceptors on nano-gratings. <i>Biosensors and Bioelectronics</i> , 2009, 24, 3043-3048.	10.1	62
44	Patterning Multiplex Protein Microarrays in a Single Microfluidic Channel. <i>Analytical Chemistry</i> , 2012, 84, 1012-1018.	6.5	62
45	Pancreatic Islet Culture and Preservation Strategies: Advances, Challenges, and Future Outlook. <i>Cell Transplantation</i> , 2010, 19, 1523-1535.	2.5	58
46	The significance of crystallographic texture of titanium alloy substrates on pre-osteoblast responses. <i>Biomaterials</i> , 2006, 27, 3532-9.	11.4	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.	10.1	49
48	Biodegradable membrane-covered stent from chitosan-based polymers. <i>Journal of Biomedical Materials Research - Part A</i> , 2005, 75A, 556-566.	4.0	47
49	Real-Time QCM-D Immunoassay through Oriented Antibody Immobilization Using Cross-Linked Hydrogel Biointerfaces. <i>Langmuir</i> , 2005, 21, 5966-5973.	3.5	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.	6.5	45
51	Quantification of Low-Picomolar Concentrations of TNF- α in Serum Using the Dual-Network Microfluidic ELISA Platform. <i>Analytical Chemistry</i> , 2008, 80, 5160-5167.	6.5	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.	6.0	43
53	InGaP@ZnS-Enriched Chitosan Nanoparticles: A Versatile Fluorescent Probe for Deep-Tissue Imaging. <i>Advanced Functional Materials</i> , 2007, 17, 3724-3730.	14.9	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.	3.5	42

#	ARTICLE	IF	CITATIONS
55	Multiplex Surface Plasmon Resonance Imaging-Based Biosensor for Human Pancreatic Islets Hormones Quantification. <i>Analytical Chemistry</i> , 2018, 90, 3132-3139.	6.5	41
56	Substrate-Mediated Gene Delivery from Glycol-Chitosan/Hyaluronic Acid Polyelectrolyte Multilayer Films. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 524-531.	8.0	39
57	Injectable Chitosan-Based Scaffolds in Regenerative Medicine and their Clinical Translatability. <i>Advanced Healthcare Materials</i> , 2014, 3, 1529-1545.	7.6	39
58	Alternating current dielectrophoresis of biomacromolecules: The interplay of electrokinetic effects. <i>Sensors and Actuators B: Chemical</i> , 2017, 252, 391-408.	7.8	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.	10.2	38
60	Liposome technology for cardiovascular disease treatment and diagnosis. <i>Expert Opinion on Drug Delivery</i> , 2012, 9, 249-265.	5.0	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.	2.5	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.	4.0	36
63	Biomimetic Hemocompatible Coatings through Immobilization of Hyaluronan Derivatives on Metal Surfaces. <i>Langmuir</i> , 2008, 24, 11834-11841.	3.5	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.	11.4	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.	7.6	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.	5.0	31
67	The potential roles of nanobiomaterials in distraction osteogenesis. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2015, 11, 1-18.	3.3	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.	7.8	31
69	Review of stent coating strategies: Clinical insights. <i>Materials Science and Technology</i> , 2008, 24, 1127-1143.	1.6	30
70	Rapid and multiplex detection of <i>Legionella</i> 's RNA using digital microfluidics. <i>Lab on A Chip</i> , 2015, 15, 1609-1618.	6.0	30
71	Radionuclides-hyaluronan-conjugate thromboresistant coatings to prevent in-stent restenosis. <i>Biomaterials</i> , 2004, 25, 3895-3905.	11.4	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.	4.0	29

#	ARTICLE	IF	CITATIONS
73	Preclinical safety study of a combined therapeutic bone wound dressing for osteoarticular regeneration. <i>Nature Communications</i> , 2019, 10, 2156.	12.8	29
74	Phase-controlled field-effect micromixing using AC electroosmosis. <i>Microsystems and Nanoengineering</i> , 2020, 6, 60.	7.0	29
75	Early injection of OP-1 during distraction osteogenesis accelerates new bone formation in rabbits. <i>Growth Factors</i> , 2006, 24, 172-183.	1.7	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.	1.7	28
77	Expression of Concern: Nanodimensional and Nanocrystalline Apatites and Other Calcium Orthophosphates in Biomedical Engineering, Biology and Medicine. <i>Materials</i> 2009, 2, 1975â€“2045. <i>Materials</i> , 2016, 9, 752.	2.9	28
78	Investigation of probiotic bacteria as dental caries and periodontal disease biotherapeutics. <i>Beneficial Microbes</i> , 2014, 5, 447-460.	2.4	27
79	Purine-crosslinked injectable chitosan sponges promote oligodendrocyte progenitor cellsâ€™ attachment and differentiation. <i>Biomaterials Science</i> , 2015, 3, 279-287.	5.4	27
80	The Multifaceted Uses and Therapeutic Advantages of Nanoparticles for Atherosclerosis Research. <i>Materials</i> , 2018, 11, 754.	2.9	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.	3.3	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.	3.5	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.	3.7	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.	3.4	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.	11.4	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.	3.3	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.	3.3	23
88	Multilineage Constructs for Scaffold-Based Tissue Engineering: A Review of Tissue-Specific Challenges. <i>Advanced Healthcare Materials</i> , 2018, 7, 1700734.	7.6	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.	7.6	22
90	Small Players Ruling the Hard Game: siRNA in Bone Regeneration. <i>Journal of Bone and Mineral Research</i> , 2016, 31, 475-487.	2.8	22

#	ARTICLE	IF	CITATIONS
91	In vitro thrombogenicity investigation of new water-dispersible polyurethane anionomers bearing carboxylate groups. Journal of Biomaterials Science, Polymer Edition, 2005, 16, 335-351.	3.5	21
92	Design and analysis of a spectro-angular surface plasmon resonance biosensor operating in the visible spectrum. Review of Scientific Instruments, 2014, 85, 093107.	1.3	21
93	Polyelectrolyte Multilayer Coating of 3D Scaffolds Enhances Tissue Growth and Gene Delivery: Non-Invasive and Label-Free Assessment. Advanced Healthcare Materials, 2014, 3, 572-580.	7.6	21
94	Characterization of Nanoscale Loaded Liposomes Produced by 2D Hydrodynamic Flow Focusing. ACS Biomaterials Science and Engineering, 2018, 4, 502-513.	5.2	21
95	Nanoimprinted plastic substrates for enhanced surface plasmon resonance imaging detection. Optics Express, 2009, 17, 20386.	3.4	20
96	A combinatorial approach towards achieving an injectable, self-contained, phosphate-releasing scaffold for promoting biomineralization in critical size bone defects. Acta Biomaterialia, 2016, 29, 389-397.	8.3	20
97	Interfacial capacitance immunosensing using interdigitated electrodes: the effect of insulation/immobilization chemistry. Physical Chemistry Chemical Physics, 2019, 21, 15787-15797.	2.8	20
98	Effect of experimental parameters on their in vitro release kinetics of transforming growth factor β 1 from coral particles. Journal of Biomedical Materials Research Part B, 2002, 59, 403-410.	3.1	19
99	A Miniaturized Multipurpose Platform for Rapid, Label-Free, and Simultaneous Separation, Patterning, and In Vitro Culture of Primary and Rare Cells. Advanced Healthcare Materials, 2014, 3, 253-260.	7.6	19
100	Osseointegrated membranes based on electro-spun TiO ₂ /hydroxyapatite/polyurethane for oral maxillofacial surgery. Materials Science and Engineering C, 2020, 108, 110479.	7.3	19
101	Titanium crystal orientation as a tool for the improved and regulated cell attachment. Journal of Biomedical Materials Research - Part A, 2009, 91A, 656-662.	4.0	18
102	Two-dimensional and three-dimensional viability measurements of adult stem cells with optical coherence phase microscopy. Journal of Biomedical Optics, 2011, 16, 086003.	2.6	18
103	Dielectric spectroscopy for non-invasive monitoring of epithelial cell differentiation within three-dimensional scaffolds. Physics in Medicine and Biology, 2012, 57, 5097-5112.	3.0	18
104	Motility imaging via optical coherence phase microscopy enables label-free monitoring of tissue growth and viability in 3D tissue-engineering scaffolds. Journal of Tissue Engineering and Regenerative Medicine, 2015, 9, 641-645.	2.7	18
105	Rapid Formation of Multicellular Spheroids in Boundary-Driven Acoustic Microstreams. Small, 2021, 17, e2101931.	10.0	18
106	Fabrication and characterization of patterned immobilization of quantum dots on metallic nano-gratings. Biosensors and Bioelectronics, 2008, 24, 970-975.	10.1	17
107	Quantifying Blood Platelet Morphological Changes by Dissipation Factor Monitoring in Multilayer Shells. Langmuir, 2008, 24, 3294-3299.	3.5	17
108	Electrohydrodynamic-Driven Micromixing for the Synthesis of Highly Monodisperse Nanoscale Liposomes. ACS Applied Nano Materials, 2020, 3, 4000-4013.	5.0	17

#	ARTICLE	IF	CITATIONS
109	Identification of two aptamers binding to <i>Legionella pneumophila</i> with high affinity and specificity. <i>Scientific Reports</i> , 2020, 10, 9145.	3.3	17
110	Imaging and organelle distribution of fluorescent InGaP/ZnS nanoparticles in glial cells. <i>Nanomedicine</i> , 2009, 4, 747-761.	3.3	16
111	Magnetic Resonance Signal-Enhancing Self-Assembled Coating for Endovascular Devices. <i>Advanced Materials</i> , 2005, 17, 826-830.	21.0	15
112	Enhanced MC3T3 preosteoblast viability and adhesion on polyelectrolyte multilayer films composed of glycolâ€modified chitosan and hyaluronic acid. <i>Journal of Biomedical Materials Research - Part A</i> , 2012, 100A, 518-526.	4.0	15
113	Microfluidic platform for assessing pancreatic islet functionality through dielectric spectroscopy. <i>Biomicrofluidics</i> , 2015, 9, 044125.	2.4	15
114	Monitoring of bacterial film formation and its breakdown with an angular-based surface plasmon resonance biosensor. <i>Analyst</i> , The, 2017, 142, 2386-2394.	3.5	15
115	Computer 3D controlled bacterial transports and aggregations of microbial adhered nano-components. <i>Journal of Micro-Bio Robotics</i> , 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. <i>Journal of Materials Chemistry B</i> , 2018, 6, 602-613.	5.8	13
117	The molecular structure of complexes formed by chromium or cobalt ions in simulated physiological fluids. <i>Biomaterials</i> , 2009, 30, 460-467.	11.4	12
118	A QCM-D sensing strategy for investigating the real-time effects of oxidative stress on the viscoelastic properties of pre-osteoblast cells. <i>Sensors and Actuators B: Chemical</i> , 2019, 293, 235-246.	7.8	12
119	VCAMâ€Targeted Gene Delivery Nanoparticles Localize to Inflamed Endothelial Cells and Atherosclerotic Plaques. <i>Advanced Therapeutics</i> , 2021, 4, 2000196.	3.2	12
120	One-Step Synthesis of Nanoliposomal Copper Diethyldithiocarbamate and Its Assessment for Cancer Therapy. <i>Pharmaceutics</i> , 2022, 14, 640.	4.5	12
121	2-Dioleoyl-sn-glycero-3-phosphocholine-based nanoliposomes as an effective delivery platform for 17â€estradiol. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2014, 86, 369-375.	4.3	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. <i>Journal of Microencapsulation</i> , 2015, 32, 784-793.	2.8	11
123	PolyDOPA Musselâ€Inspired Coating as a Means for Hydroxyapatite Entrapment on Polytetrafluoroethylene Surface for Application in Periodontal Diseases. <i>Macromolecular Bioscience</i> , 2016, 16, 288-298.	4.1	11
124	Efficient in vitro delivery of Noggin siRNA enhances osteoblastogenesis. <i>Heliyon</i> , 2017, 3, e00450.	3.2	11
125	EFFECTS OF CRYSTAL SIZE AND ORIENTATION OF SUBSTRATES ON CELL ADHESION: IMPLICATION FOR MEDICAL IMPLANTS. <i>International Journal of Modern Physics B</i> , 2008, 22, 3069-3081.	2.0	10
126	Rigorous Coupled-Wave Analysis of Surface Plasmon Enhancement from Patterned Immobilization on Nanogratings. <i>Journal of Sensors</i> , 2009, 2009, 1-7.	1.1	10

#	ARTICLE	IF	CITATIONS
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.	8.3	10
128	Platelet adhesion and human umbilical vein endothelial cell cytocompatibility of biodegradable segmented polyurethanes prepared with 4,4- ϵ^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.	2.4	9
129	Real-time measurement of complex refractive indices with surface plasmon resonance. <i>Sensors and Actuators B: Chemical</i> , 2017, 245, 747-752.	7.8	9
130	Gold nanoparticle amplification strategies for multiplex SPRI-based immunosensing of human pancreatic islet hormones. <i>Analyst, The</i> , 2019, 144, 2541-2549.	3.5	9
131	Microwave-assisted synthesis of surface-enhanced Raman scattering nanoprobes for cellular sensing. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 122, 617-622.	5.0	8
132	Poly(DL-lactide-co- μ -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.	3.4	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.	4.1	8
134	Viscous Core Liposomes Increase siRNA Encapsulation and Provides Gene Inhibition When Slightly Positively Charged. <i>Pharmaceutics</i> , 2021, 13, 479.	4.5	8
135	Mussel-inspired antimicrobial coating on PTFE barrier membranes for guided tissue regeneration. <i>Biomedical Materials (Bristol)</i> , 2021, 16, 035035.	3.3	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, .	7.0	8
137	Nondestructive Online <emphasis>In Vitro</emphasis> Monitoring of Pre-Osteoblast Cell Proliferation Within Microporous Polymer Scaffolds. <i>IEEE Transactions on Nanobioscience</i> , 2007, 6, 249-258.	3.3	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.	2.4	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.	4.0	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.	3.5	6
141	Functionalization of Contacted Carbon Nanotube Forests by Dip Coating for High-Performance Biocathodes. <i>ChemElectroChem</i> , 2020, 7, 4685-4689.	3.4	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.	7.8	6
143	Modulating the Release Kinetics of Paclitaxel from Membrane-Covered Stents Using Different Loading Strategies. <i>Materials</i> , 2008, 1, 25-43.	2.9	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.	3.5	5

#	ARTICLE	IF	CITATIONS
145	Vocal Fold Tissue Regeneration: Investigation of the Viability, Adhesion, and Migration of Human Fibroblasts in a Hyaluronic Acid/Gelatin Microgelâ€Reinforced Composite Hydrogel for Vocal Fold Tissue Regeneration (Adv. Healthcare Mater. 2/2016). Advanced Healthcare Materials, 2016, 5, 188-188.	7.6	5
146	IL-10 Gene Transfection in Primary Endothelial Cells via Linear and Branched Poly(Î²-amino ester) Nanoparticles Attenuates Inflammation in Stimulated Macrophages. ACS Applied Bio Materials, 2018, 1, 917-927.	4.6	5
147	A core-shell guanosine diphosphate crosslinked chitosan scaffold as a potential co-encapsulation platform. Carbohydrate Polymers, 2021, 256, 117499.	10.2	5
148	Facile engineering and interfacing of styrenic block copolymers devices for lowâ€cost, multipurpose microfluidic applications. Engineering Reports, 2021, 3, e12361.	1.7	4
149	3D Printed In Vitro Dentin Model to Investigate Occlusive Agents against Tooth Sensitivity. Materials, 2021, 14, 7255.	2.9	4
150	A novel OP-1 delivery system for the potential acceleration of regenerate formation and consolidation in distraction osteogenesis. Bone, 2008, 43, S51.	2.9	3
151	The influence of isocyanurate content on the bioperformance of hydrocarbon-based polyurethanes. Journal of Biomaterials Science, Polymer Edition, 2008, 19, 525-540.	3.5	3
152	Low-Cost Graphene-Based Digital Microfluidic System. Micromachines, 2020, 11, 880.	2.9	3
153	Hollow Microcapsules Through Layer-by-Layer Self-Assembly of Chitosan/Alginate on E. coli. MRS Advances, 2020, 5, 2401-2407.	0.9	3
154	Encapsulation and differentiation of <scp>adiposeâ€derived</scp> mesenchymal stem cells in a biomimetic purine <scp>crossâ€linked</scp> chitosan sponge. Journal of Biomedical Materials Research - Part A, 2022, 110, 585-594.	4.0	3
155	Self-Assembled Nanostructures (SANs). , 2017, , 391-409.		2
156	Biocompatibility, Metals Ions, and Corrosion Products. , 2012, , 47-55.		2
157	Design and Development of Light-Sensitive Chitosan-Based Nanocarriers for Gene Delivery. Advances in Science and Technology, 0, , .	0.2	1
158	Nanotubes and nanoparticles based 3D scaffolds for the construction of high performance Biosensors. Materials Research Society Symposia Proceedings, 2014, 1700, 97-102.	0.1	1
159	Modeling and analysis of a novel approach for particle separation using time-varying amplitude dielectrophoresis. , 2016, , .		1
160	Functionalized gold nanoparticles for surface plasmon resonance detection of legionella pneumophila 16s rRNA. , 2016, , .		1
161	Elaboration of a finite element model of pancreatic islet dielectric response to gap junction expression and insulin release. Colloids and Surfaces B: Biointerfaces, 2016, 148, 474-480.	5.0	1
162	Capacitive Detection of Insulin Antibody enhanced by AC Electrothermal mixing. , 2019, , .		1

#	ARTICLE	IF	CITATIONS
163	Nanoparticle Synthesis Using an Electrohydrodynamic Micromixer. , 2020, , .		1
164	Plasma-based sterilization: Effect on surface and bulk properties and hydrolytic stability of reprocessed polyurethane electrophysiology catheters. Journal of Biomedical Materials Research Part B, 2000, 52, 774-782.	3.1	1
165	Monitoring of stem cell proliferation and differentiation using a permittivity-responsive biointerface. Materials Research Society Symposia Proceedings, 2003, 773, 7121.	0.1	1
166	Adhesion Kinetics of MC3T3-E1 Pre-Osteoblasts to Osteoconductive Porous Titanium Scaffolds. Materials Research Society Symposia Proceedings, 2004, 823, W12.9.1.	0.1	0
167	Modelling and Implementation of a Novel SPR Biointerface for Time-Effective Detection of Sepsis Biomarkers. , 2006, , .		0
168	Patterned Immobilisation of Quantum Dots for Enhanced SPR. Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS, 2007, , .	0.0	0
169	Electrochemical Behavior of (001), (100) and (110) Ti Single Crystals under Simulated Body Fluid Condition. Ceramic Transactions, 2008, , 442-450.	0.1	0
170	In vitro and in vivo biocompatibility study of a hybrid nanoparticulate BMP-7/OP-1 delivery system. , 2009, , .		0
171	Computer 3D controlled bacterial transports and aggregations of microbial adhered nano-components. , 2013, , .		0
172	Materials Best Paper Award 2013. Materials, 2013, 6, 609-611.	2.9	0
173	Materials Best Paper Award 2014. Materials, 2014, 7, 1441-1443.	2.9	0
174	A Novel Injectable Chitosan Sponge Containing Brain Derived Neurotrophic Factor (BDNF) to Enhance Human Oligodendrocyte Progenitor Cells' (OPC) Differentiation. Materials Research Society Symposia Proceedings, 2014, 1621, 127-132.	0.1	0
175	Surface plasmon resonance biosensor as a tool for the measurement of complex refractive indices. , 2015, 2015, 6413-6.		0
176	Materials Best Paper Award 2015. Materials, 2015, 8, 829-831.	2.9	0