Roger J Narayan

List of Publications by Year
in descending order

232	7,196	53794	76900
papers	citations	45 h-index	74 g-index

238	238	238	9043
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Direct ink writing of vancomycinâ€loaded polycaprolactone/ polyethylene oxide/ hydroxyapatite 3D scaffolds. Journal of the American Ceramic Society, 2022, 105, 1821-1840.	3.8	13
2	Naloxone and nalmefene absorption delivered by hollow microneedles compared to intramuscular injection. Drug Delivery and Translational Research, 2022, 12, 376-383.	5.8	6
3	Next generation bioceramics. Journal of the American Ceramic Society, 2022, 105, 1615-1616.	3.8	0
4	Recent advances of boron-doped diamond electrochemical sensors toward environmental applications. Current Opinion in Electrochemistry, 2022, 32, 100920.	4.8	14
5	Laser-patterned carbon coatings on flexible and optically transparent plastic substrates for advanced biomedical sensing and implant applications. Journal of Materials Chemistry C, 2022, 10, 2965-2975.	5.5	25
6	Graphene Quantum Dots-Based Electrochemical Biosensing Platform for Early Detection of Acute Myocardial Infarction. Biosensors, 2022, 12, 77.	4.7	26
7	Translation of 3D printed materials for medical applications. MRS Bulletin, 2022, 47, 39-48.	3.5	10
8	Novel photonic methods for diagnosis of <scp>SARSâ€CoV</scp>â€2 infection. Translational Biophotonics, 2022, 4, .	2.7	7
9	Recent Advancement in Biofluid-Based Glucose Sensors Using Invasive, Minimally Invasive, and Non-Invasive Technologies: A Review. Nanomaterials, 2022, 12, 1082.	4.1	29
10	Transdermal Polymeric Microneedle Sensing Platform for Fentanyl Detection in Biofluid. Biosensors, 2022, 12, 198.	4.7	17
11	Formation of Q-carbon with wafer scale integration. Carbon, 2022, 196, 972-978.	10.3	8
12	Size and Zeta Potential Clicked Germination Attenuation and Anti-Sporangiospores Activity of PEI-Functionalized Silver Nanoparticles against COVID-19 Associated Mucorales (Rhizopus arrhizus). Nanomaterials, 2022, 12, 2235.	4.1	9
13	Discovery of Double Helix and Impact on Nanoscale to Mesoscale Crystalline Structures. ACS Omega, 2022, 7, 25853-25859.	3.5	3
14	Microneedleâ€based transdermal electrochemical biosensors based on Prussian blueâ€gold nanohybrid modified screenâ€printed electrodes. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2021, 109, 33-49.	3.4	7
15	Synthesis of multifunctional microdiamonds on stainless steel substrates by chemical vapor deposition. Carbon, 2021, 171, 739-749.	10.3	21
16	Direct ink writing of polycaprolactone / polyethylene oxide based 3D constructs. Progress in Natural Science: Materials International, 2021, 31, 180-191.	4.4	31
17	Graphene nanocomposites for transdermal biosensing. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2021, 13, e1699.	6.1	16
18	Injection molding for manufacturing of solid poly(l-lactide-co-glycolide) microneedles. MRS Advances, 2021, 6, 61-65.	0.9	9

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19	Organotrialkoxysilane-functionalized mesoporous Pdâ€“Ni nanocatalyst for selective hydrazine decomposition and sensing. MRS Communications, 2021, 11, 78-85.	1.8	5
20	Translation of laser-based three-dimensional printing technologies. MRS Bulletin, 2021, 46, 174-185.	3.5	9
21	Organotrialkoxysilane mediated rapid and controlled synthesis metal nanoparticles in both homogeneous and heterogeneous phase and their catalytic applications. MRS Advances, 2021, 6, 43-53.	0.9	4
22	Patterned surfaces with the controllable drug doses using inkjet printing. Journal of Materials Research, 2021, 36, 3865-3876.	2.6	5
23	Recent advances in carbon nanomaterials for biomedical applications: A review. Current Opinion in Biomedical Engineering, 2021, 17, 100262.	3.4	50
24	Biological function following radical photo-polymerization of biomedical polymers and surrounding tissues: Design considerations and cellular risk factors. Applied Physics Reviews, 2021, 8, 011301.	11.3	13
25	Organotrialkoxysilane-Functionalized Noble Metal Monometallic, Bimetallic, and Trimetallic Nanoparticle Mediated Non-Enzymatic Sensing of Glucose by Resonance Rayleigh Scattering. Biosensors, 2021, 11, 122.	4.7	18
26	Organotrialkoxysilane-Functionalized Prussian Blue Nanoparticles-Mediated Fluorescence Sensing of Arsenic(III). Nanomaterials, 2021, 11, 1145.	4.1	14
27	Organotrialkoxysilane-mediated synthesis of Niâ€“Pd nanocatalysts at lower concentrations of noble metal: Catalysts for faster hydrogen evolution kinetics. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2021, 39, 032802.	1.2	0
28	Isoflavonoid-Antibiotic Thin Films Fabricated by MAPLE with Improved Resistance to Microbial Colonization. Molecules, 2021, 26, 3634.	3.8	5
29	Effect of Photoinitiator on Precursory Stability and Curing Depth of Thiol-Ene Clickable Gelatin. Polymers, 2021, 13, 1877.	4.5	21
30	Correlation of zeta potential and contact angle of oxygen and fluorine terminated nitrogen incorporated ultrananocrystalline diamond (N-UNCD) thin films. Materials Letters, 2021, 295, 129823.	2.6	7
31	Designing organotrialkoxysilane-functionalized microscale enzyme carrier: Spherical polymersomes with tunable catalytic potential. Journal of Materials Research, 2021, 36, 3010-3020.	2.6	0
32	Mitochondria-targeted graphene for advanced cancer therapeutics. Acta Biomaterialia, 2021, 129, 43-56.	8.3	33
33	Advances in laser-assisted conversion of polymeric and graphitic carbon into nanodiamond films. Nanotechnology, 2021, 32, .	2.6	12
34	Laser-based bioprinting for multilayer cell patterning in tissue engineering and cancer research. Essays in Biochemistry, 2021, 65, 409-416.	4.7	14
35	Liquid phase regrowth of ã€˜110ã€‰ nanodiamond film by UV laser annealing of PTFE to generate dense CVD microdiamond film. Diamond and Related Materials, 2021, 117, 108481.	3.9	9
36	Tunable Quantum Photoinitiators for Radical Photopolymerization. Polymers, 2021, 13, 2694.	4.5	10

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37	Enhanced nucleation and large-scale growth of CVD diamond via surface-modification of silicon-incorporated diamond-like carbon thin films. Diamond and Related Materials, 2021, 120, 108630.	3.9	11
38	Crossing the bloodâ€“brain barrier with graphene nanostructures. Materials Today, 2021, 51, 393-401.	14.2	22
39	Electrochemical Sensing and Removal of Cesium from Water Using Prussian Blue Nanoparticle-Modified Screen-Printed Electrodes. Chemosensors, 2021, 9, 253.	3.6	8
40	3D bioprinting: Physical and chemical processes. Applied Physics Reviews, 2021, 8, .	11.3	4
41	Graphene quantum dotâ€“based electrochemical biosensing for early cancer detection. Current Opinion in Electrochemistry, 2021, 30, 100786.	4.8	33
42	Nanostructured diamond for biomedical applications. Nanotechnology, 2021, 32, 132001.	2.6	23
43	Enhanced Vapor Transmission Barrier Properties via Silicon-Incorporated Diamond-Like Carbon Coating. Polymers, 2021, 13, 3543.	4.5	9
44	One-Step Formation of Reduced Graphene Oxide from Insulating Polymers Induced by Laser Writing Method. Crystals, 2021, 11, 1308.	2.2	11
45	3D Printing of Polytetrafluoroethylene Hollow Needles for Medical Applications. Jom, 2021, 73, 3798-3803.	1.9	3
46	Drug Release Kinetics of DOX-Loaded Graphene-Based Nanocarriers for Ovarian and Breast Cancer Therapeutics. Applied Sciences (Switzerland), 2021, 11, 11151.	2.5	7
47	Digital light processing-based 3D printing of polytetrafluoroethylene solid microneedle arrays. MRS Communications, 2021, 11, 896-901.	1.8	6
48	Optical Biosensors for Diagnostics of Infectious Viral Disease: A Recent Update. Diagnostics, 2021, 11, 2083.	2.6	29
49	Hollow copper microneedle made by local electrodeposition-based additive manufacturing. MRS Advances, 2021, 6, 893-896.	0.9	5
50	Finite element evaluations of the mechanical properties of polycaprolactone/hydroxyapatite scaffolds by direct ink writing: Effects of pore geometry. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 104, 103665.	3.1	39
51	Rapid and label-free detection of COVID-19 using coherent anti-Stokes Raman scattering microscopy. MRS Communications, 2020, 10, 566-572.	1.8	13
52	Molecular weight of polyethylenimine-dependent transfusion and selective antimicrobial activity of functional silver nanoparticles. Journal of Materials Research, 2020, 35, 2405-2415.	2.6	10
53	3D printing and bioprinting using multiphoton lithography. Bioprinting, 2020, 20, e00090.	5.8	19
54	Gradient scaffolds for osteochondral tissue engineering and regeneration. Journal of Materials Chemistry B, 2020, 8, 8149-8170.	5.8	88

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55	Dynamic in vivo protein carbonyl biosensor for measuring oxidative stress. Medical Devices & Sensors, 2020, 3, e10135.	2.7	1
56	Organotrialkoxysilane-mediated controlled synthesis of noble metal nanoparticles and their impact on selective fluorescence enhancement and quenching. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2020, 38, .	1.2	4
57	Synthesis of self-assembled siloxaneâ€“polyindoleâ€“gold nanoparticle polymeric nanofluid for biomedical membranes. MRS Communications, 2020, 10, 482-486.	1.8	5
58	Minimally Invasive Platforms in Biosensing. Frontiers in Bioengineering and Biotechnology, 2020, 8, 894.	4.1	8
59	Argon and oxygen plasma treatment increases hydrophilicity and reduces adhesion of silicon-incorporated diamond-like coatings. Biointerphases, 2020, 15, 041007.	1.6	12
60	Organotrialkoxysilane-mediated synthesis of functional noble metal nanoparticles and their bimetallic for electrochemical recognition of L-tryptophan. MRS Advances, 2020, 5, 2429-2444.	0.9	6
61	Polyethylenimine-mediated controlled synthesis of Prussian blue-gold nanohybrids for biomedical applications. Journal of Biomaterials Applications, 2020, 36, 088532822097557.	2.4	2
62	Physical characterization and in vitro evaluation of 3D printed hydroxyapatite, tricalcium phosphate, zirconia, alumina, and SiAlON structures made by lithographic ceramic manufacturing. MRS Advances, 2020, 5, 2419-2428.	0.9	2
63	The Photoinitiator Lithium Phenyl (2,4,6-Trimethylbenzoyl) Phosphinate with Exposure to 405 nm Light Is Cytotoxic to Mammalian Cells but Not Mutagenic in Bacterial Reverse Mutation Assays. Polymers, 2020, 12, 1489.	4.5	32
64	Solidâ€state ion sensor for onâ€chip determination of potassium ion in body fluid. Medical Devices & Sensors, 2020, 3, e10110.	2.7	1
65	Physicochemical parameters that underlie inkjet printing for medical applications. Biophysics Reviews, 2020, 1, .	2.7	14
66	Novel Antimicrobial Surfaces to Defeat COVID-19 Transmission. MRS Advances, 2020, 5, 2839-2851.	0.9	5
67	Wearable Electrochemical Microneedle Sensor for Continuous Monitoring of Levodopa: Toward Parkinson Management. ACS Sensors, 2019, 4, 2196-2204.	7.8	196
68	Tissue specific stem/progenitor cells for cartilage tissue engineering: A systematic review of the literature. Applied Physics Reviews, 2019, 6, 031301.	11.3	15
69	Sintered Tape-cast 3YSZ Supports Human Bone Marrow Derived Stem Cell Osteogenic Differentiation. MRS Advances, 2019, 4, 2541-2549.	0.9	0
70	Inkjet dispensing technologies: recent advances for novel drug discovery. Expert Opinion on Drug Discovery, 2019, 14, 101-113.	5.0	38
71	Physics of bioprinting. Applied Physics Reviews, 2019, 6, .	11.3	32
72	Editorial note to the Special Issue â€œAdvances in Bioceramicsâ€• International Journal of Applied Ceramic Technology, 2019, 16, 1752-1752.	2.1	0

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73	Toxicity and photosensitizing assessment of gelatin methacryloyl-based hydrogels photoinitiated with lithium phenyl-2,4,6-trimethylbenzoylphosphinate in human primary renal proximal tubule epithelial cells. Biointerphases, 2019, 14, 021007.	1.6	44
74	Fabrication of Hollow Metal Microneedle Arrays Using a Molding and Electroplating Method. MRS Advances, 2019, 4, 1417-1426.	0.9	16
75	Current Advancements in Transdermal Biosensing and Targeted Drug Delivery. Sensors, 2019, 19, 1028.	3.8	61
76	Biocompatibility and functionalization of diamond for neural applications. Current Opinion in Biomedical Engineering, 2019, 10, 60-68.	3.4	27
77	Microneedle-Based Delivery of Amphotericin B for Treatment of Cutaneous Leishmaniasis. Biomedical Microdevices, 2019, 21, 8.	2.8	18
78	Matrix-Assisted Pulsed laser Evaporation-deposited Rapamycin Thin Films Maintain Antiproliferative Activity. International Journal of Bioprinting, 2019, 6, 188.	3.4	3
79	Solvent-based Extrusion 3D Printing for the Fabrication of Tissue Engineering Scaffolds. International Journal of Bioprinting, 2019, 6, 211.	3.4	73
80	Ultrananocrystalline diamond-coated nanoporous membranes support SK-N-SH neuroblastoma endothelial cell attachment. Interface Focus, 2018, 8, 20170063.	3.0	10
81	Biological responses to immobilized microscale and nanoscale surface topographies. , 2018, 182, 33-55.		68
82	Liquid-Phase Laser Induced Forward Transfer for Complex Organic Inks and Tissue Engineering. Annals of Biomedical Engineering, 2017, 45, 84-99.	2.5	21
83	Controlled synthesis of polyethylenimine coated gold nanoparticles: Application in glutathione sensing and nucleotide delivery. , 2017, 105, 1191-1199.		15
84	Analytical methods for detection of Zika virus. MRS Communications, 2017, 7, 121-130.	1.8	8
85	Polyethylenimine-mediated synthetic insertion of gold nanoparticles into mesoporous silica nanoparticles for drug loading and biocatalysis. Biointerphases, 2017, 12, 011005.	1.6	12
86	Gelatin-based hydrogels for biomedical applications. MRS Communications, 2017, 7, 416-426.	1.8	184
87	Neutronâ€activatable needles for radionuclide therapy of solid tumors. Journal of Biomedical Materials Research - Part A, 2017, 105, 3273-3280.	4.0	0
88	Two-photon polymerization for biological applications. Materials Today, 2017, 20, 314-322.	14.2	173
89	Effects of nanotopography on the in vitro hemocompatibility of nanocrystalline diamond coatings. Journal of Biomedical Materials Research - Part A, 2017, 105, 253-264.	4.0	17
90	Progress in Wear Resistant Materials for Total Hip Arthroplasty. Coatings, 2017, 7, 99.	2.6	22

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91	Nanosilver-PMMA composite coating optimized to provide robust antibacterial efficacy while minimizing human bone marrow stromal cell toxicity. Toxicology in Vitro, 2017, 44, 248-255.	2.4	17
92	Printing amphotericin B on microneedles using matrixassisted pulsed laser evaporationÂ. International Journal of Bioprinting, 2017, 3, 147.	3.4	12
93	Biological Response of Human Bone Marrow-Derived Mesenchymal Stem Cells to Commercial Tantalum Coatings with Microscale and Nanoscale Surface Topographies. Jom, 2016, 68, 1672-1678.	1.9	14
94	Inkjet deposition of itraconazole onto poly(glycolic acid) microneedle arrays. Biointerphases, 2016, 11, 011008.	1.6	38
95	Use of Drawing Lithography-Fabricated Polyglycolic Acid Microneedles for Transdermal Delivery of Itraconazole to a Human Basal Cell Carcinoma Model Regenerated on Mice. Jom, 2016, 68, 1128-1133.	1.9	14
96	Hydrogel-based microfluidics for vascular tissue engineering. BioNanoMaterials, 2016, 17, 19-32.	1.4	19
97	Biological evaluation of ultrananocrystalline and nanocrystalline diamond coatings. Journal of Materials Science: Materials in Medicine, 2016, 27, 187.	3.6	21
98	Towards an Integrated Microneedle Total Analysis Chip for Protein Detection. Electroanalysis, 2016, 28, 1305-1310.	2.9	35
99	Microneedle-based sensors for medical diagnosis. Journal of Materials Chemistry B, 2016, 4, 1379-1383.	5.8	100
100	Electrodeposited Iron as a Biocompatible Material for Microneedle Fabrication. Electroanalysis, 2015, 27, 2239-2249.	2.9	5
101	Polyglycolic acid microneedles modified with inkjet-deposited antifungal coatings. Biointerphases, 2015, 10, 011004.	1.6	65
102	Nitrogen-incorporated ultrananocrystalline diamond microneedle arrays for electrochemical biosensing. Diamond and Related Materials, 2015, 54, 39-46.	3.9	52
103	Osteogenic Differentiation of Human Mesenchymal Stem Cells in 3-D Zr-Si Organic-Inorganic Scaffolds Produced by Two-Photon Polymerization Technique. PLoS ONE, 2015, 10, e0118164.	2.5	79
104	IN FOCUS: INTERFACES IN BIOMEDICAL APPLICATIONS. Biointerphases, 2014, 9, 028701.	1.6	0
105	Inkjet printing for pharmaceutical applications. Materials Today, 2014, 17, 247-252.	14.2	136
106	Simultaneous Detection of Dopamine, Ascorbic Acid and Uric Acid at Lithographicallyâ€Defined 3D Graphene Electrodes. Electroanalysis, 2014, 26, 52-56.	2.9	26
107	High-aspect-ratio nanoporous membranes made by reactive ion etching and e-beam and interference lithography. Microsystem Technologies, 2014, 20, 1797-1802.	2.0	3
108	Microneedle-based self-powered glucose sensor. Electrochemistry Communications, 2014, 47, 58-62.	4.7	150

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109	Two-photon polymerization of 3-D zirconium oxide hybrid scaffolds for long-term stem cell growth. Biointerphases, 2014, 9, 029014.	1.6	15
110	Growth of Zircone on Nanoporous Alumina Using Molecular Layer Deposition. Jom, 2014, 66, 649-653.	1.9	10
111	Diagnostic Devices: Microneedleâ€Based Transdermal Sensor for Onâ€Chip Potentiometric Determination of K⁺ (Adv. Healthcare Mater. 6/2014). Advanced Healthcare Materials, 2014, 3, 948-948.	7.6	7
112	Microneedleâ€Based Transdermal Sensor for Onâ€Chip Potentiometric Determination of K⁺. Advanced Healthcare Materials, 2014, 3, 876-881.	7.6	116
113	Stereolithography in tissue engineering. Journal of Materials Science: Materials in Medicine, 2014, 25, 845-856.	3.6	247
114	Cytotoxic evaluation of nanostructured zinc oxide (ZnO) thin films and leachates. Toxicology in Vitro, 2014, 28, 1144-1152.	2.4	29
115	Transdermal Delivery of Insulin via Microneedles. Journal of Biomedical Nanotechnology, 2014, 10, 2244-2260.	1.1	38
116	Recent Developments in Functional Thin Films. Jom, 2013, 65, 517-518.	1.9	1
117	Inkjet Printing of Amphotericin B onto Biodegradable Microneedles Using Piezoelectric Inkjet Printing. Jom, 2013, 65, 525-533.	1.9	47
118	Prevention of Ultraviolet (UV)-Induced Surface Damage and Cytotoxicity of Polyethersulfone Using Atomic Layer Deposition (ALD) Titanium Dioxide. Jom, 2013, 65, 550-556.	1.9	14
119	Two-photon polymerization of polyethylene glycol diacrylate scaffolds with riboflavin and triethanolamine used as a water-soluble photoinitiator. Regenerative Medicine, 2013, 8, 725-738.	1.7	77
120	Big possibilities for small scale implants. Materials Today, 2013, 16, 204-205.	14.2	3
121	Cytotoxicity of cultured macrophages exposed to antimicrobial zinc oxide (ZnO) coatings on nanoporous aluminum oxide membranes. Biomatter, 2013, 3, .	2.6	14
122	The effects of geometry on skin penetration and failure of polymer microneedles. Journal of Adhesion Science and Technology, 2013, 27, 227-243.	2.6	118
123	Indirect rapid prototyping of antibacterial acid anhydride copolymer microneedles. Biofabrication, 2012, 4, 011002.	7.1	42
124	Networked Collaborative Design and Control for Collaborative Product Development Using Haptic Interface. Computer-Aided Design and Applications, 2012, 9, 327-343.	0.6	1
125	Hollow Microneedle-based Sensor for Multiplexed Transdermal Electrochemical Sensing. Journal of Visualized Experiments, 2012, , e4067.	0.3	20
126	Multiplexed microneedle-based biosensor array for characterization of metabolic acidosis. Talanta, 2012, 88, 739-742.	5.5	107

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127	Ultrananocrystalline Diamond-Coated Microporous Silicon Nitride Membranes for Medical Implant Applications. Jom, 2012, 64, 520-525.	1.9	6
128	Recent Developments in Electronic, Functional, and Biological Thin Films. Jom, 2012, 64, 505-505.	1.9	2
129	In Vitro Cytotoxicity of Rare Earth Oxide Nanoparticles for Imaging Applications. International Journal of Applied Ceramic Technology, 2012, 9, 881-892.	2.1	13
130	Multiplexed and switchable release of distinct fluids from microneedle platforms via conducting polymer nanoactuators for potential drug delivery. Sensors and Actuators B: Chemical, 2012, 161, 1018-1024.	7.8	42
131	Laser micro- and nanofabrication of biomaterials. MRS Bulletin, 2011, 36, 973-982.	3.5	20
132	Microneedle array-based carbon paste amperometric sensors and biosensors. Analyst, The, 2011, 136, 1846.	3.5	130
133	Fabrication of microscale medical devices by two-photon polymerization with multiple foci via a spatial light modulator. Biomedical Optics Express, 2011, 2, 3167.	2.9	151
134	Atomic layer deposition of titanium dioxide on cellulose acetate for enhanced hemostasis. Biotechnology Journal, 2011, 6, 213-223.	3.5	27
135	Multiphoton microscopy of transdermal quantum dot delivery using two photonpolymerization-fabricated polymer microneedles. Faraday Discussions, 2011, 149, 171-185.	3.2	70
136	Deposition of antimicrobial coatings on microstereolithography-fabricated microneedles. Jom, 2011, 63, 59-68.	1.9	58
137	Medical applications of diamond particles & surfaces. Materials Today, 2011, 14, 154-163.	14.2	61
138	Bicomponent Microneedle Array Biosensor for Minimallyâ€Invasive Glutamate Monitoring. Electroanalysis, 2011, 23, 2302-2309.	2.9	99
139	Integrated carbon fiber electrodes within hollow polymer microneedles for transdermal electrochemical sensing. Biomicrofluidics, 2011, 5, 13415.	2.4	96
140	Fabrication of Microneedles Using Two Photon Polymerization for Transdermal Delivery of Nanomaterials. Journal of Nanoscience and Nanotechnology, 2010, 10, 6305-6312.	0.9	52
141	Analytical Modeling and Excimer Laser Micromachining of Microchannel for Medical Devices Development. , 2010, , .		0
142	Vascular tissue engineering by computer-aided laser micromachining. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2010, 368, 1891-1912.	3.4	7
143	Supercapacitive transport of pharmacologic agents using nanoporous gold electrodes. Biotechnology Journal, 2010, 5, 192-200.	3.5	24
144	Recent advances in biological materials science and biomedical materials. Jom, 2010, 62, 38-38.	1.9	2

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145	Piezoelectric inkjet printing of medical adhesives and sealants. Jom, 2010, 62, 56-60.	1.9	9
146	Antifungal Textiles Formed Using Silver Deposition in Supercritical Carbon Dioxide. Journal of Materials Engineering and Performance, 2010, 19, 368-373.	2.5	42
147	Two Photon Polymerizationâ€Micromolding of Polyethylene Glycolâ€Gentamicin Sulfate Microneedles. Advanced Engineering Materials, 2010, 12, B77-B82.	3.5	60
148	Mott transition in Ga-doped MgxZn1â^'xO: A direct observation. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2010, 171, 90-92.	3.5	4
149	Hybrid clientâ€“server architecture and control techniques for collaborative product development using haptic interfaces. Computers in Industry, 2010, 61, 83-96.	9.9	12
150	Atomic layer deposition of nanoporous biomaterials. Materials Today, 2010, 13, 60-64.	14.2	33
151	Use of nanomaterials in water purification. Materials Today, 2010, 13, 44-46.	14.2	76
152	Titania: a material-based approach to oil spill remediation?. Materials Today, 2010, 13, 58-59.	14.2	11
153	Medical prototyping using two photon polymerization. Materials Today, 2010, 13, 42-48.	14.2	209
154	Optical and electrical properties of gallium-doped MgxZn1â^'xO. Journal of Applied Physics, 2010, 107, 013510.	2.5	24
155	Semiconductor-metal transition characteristics of VO2 thin films grown on c- and r-sapphire substrates. Journal of Applied Physics, 2010, 107, .	2.5	124
156	Role of twin boundaries in semiconductor to metal transition characteristics of VO2 films. Applied Physics Letters, 2010, 97, .	3.3	22
157	Semipolar r-plane ZnO films on Si(100) substrates: Thin film epitaxy and optical properties. Journal of Applied Physics, 2010, 107, 113530.	2.5	23
158	Interactive Forces Analysis and Haptic Modeling for Virtual Prototyping and Product Development. , 2010, , .		1
159	The next generation of biomaterial development. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2010, 368, 1831-1837.	3.4	49
160	Microscale Patterning of Two-Component Biomedical Hydrogel. Journal of Adhesion, 2010, 86, 62-71.	3.0	1
161	Two-photon polymerization of microneedles for transdermal drug delivery. Expert Opinion on Drug Delivery, 2010, 7, 513-533.	5.0	122
162	In Situ Collagen Polymerization of Layered Cell-Seeded Electrospun Scaffolds for Bone Tissue Engineering Applications. Tissue Engineering - Part C: Methods, 2010, 16, 1095-1105.	2.1	47

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163	Inkjet Printing of Cyanoacrylate Adhesive. Journal of Adhesion, 2010, 86, 1-9.	3.0	9
164	Laser direct writing of micro- and nano-scale medical devices. Expert Review of Medical Devices, 2010, 7, 343-356.	2.8	126
165	ANTIMICROBIAL TESTING, MORPHOLOGICAL CHARACTERIZATION, AND SURFACE POTENTIAL MAPPING OF SILVER-POLY-(METHYL METHACRYLATE) NANOCOMPOSITE FILMS MADE THROUGH MATRIX-ASSISTED PULSED LASER DEPOSITION AGAINST S. AUREUS. Nano LIFE, 2010, 01, 145-152.	0.9	1
166	Microreplication of laser-fabricated surface and three-dimensional structures. Journal of Optics (United Kingdom), 2010, 12, 124009.	2.2	27
167	Atomic layer deposition-based functionalization of materials for medical and environmental health applications. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2010, 368, 2033-2064.	3.4	35
168	Heterogeneous Deformable Modeling of Bio-Tissues and Haptic Force Rendering for Bio-Object Modeling. Biological and Medical Physics Series, 2010, , 19-37.	0.4	3
169	Surgical Cutting Simulation and Topology Refinement of Bio-Tissues and Bio-Object. Biological and Medical Physics Series, 2010, , 1-17.	0.4	0
170	Improving Biocompatibily of Laser Micromachined Silicon Wafer by Surface Coating With Poly(Ethylene Glycol) Diacrylate and Diamond-Like Carbon for Biomedical Devices. , 2010, , .		0
171	Electrically Triggered Drug Delivery Using Nanoporous Electrodes. ECS Meeting Abstracts, 2010, , .	0.0	0
172	Fabrication of Polymer Microneedles Using a Two-Photon Polymerization and Micromolding Process. Journal of Diabetes Science and Technology, 2009, 3, 304-311.	2.2	100
173	Rapid Prototyping of Biomimetic Structures: Fabrication of Mosquito-like Microneedles by Two-Photon Polymerization. Materials Research Society Symposia Proceedings, 2009, 1239, 1.	0.1	4
174	Semiconductor to metal transition characteristics of VO2 thin films grown epitaxially on Si (001). Applied Physics Letters, 2009, 95, .	3.3	72
175	Electrically Modulated Drug Delivery using Nanoporous Electrodes. Materials Research Society Symposia Proceedings, 2009, 1239, 1.	0.1	0
176	Inkjet printing of bioadhesives. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2009, 89B, 28-35.	3.4	44
177	Atomic layer deposition of TiO2 thin films on nanoporous alumina templates: Medical applications. Jom, 2009, 61, 12-16.	1.9	38
178	The development of novel materials for medical devices. Jom, 2009, 61, 13-13.	1.9	3
179	Laser micromachining for biomedical applications. Jom, 2009, 61, 35-40.	1.9	70
180	Stretchable diamond-like carbon microstructures for biomedical applications. Jom, 2009, 61, 53-58.	1.9	5

#	Article	IF	Citations
181	Nanoporous membranes for medical and biological applications. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2009, 1, 568-581.	6.1	222
182	Optical and electrical properties of bandgap engineered gallium-doped films. Solid State Communications, 2009, 149, 1670-1673.	1.9	21
183	Magnetic properties and their dependence on deposition parameters of Co/Al2O3 multilayers grown by pulsed laser deposition. Acta Materialia, 2009, 57, 2040-2046.	7.9	3
184	Thin film epitaxy and structure property correlations for non-polar ZnO films. Acta Materialia, 2009, 57, 4426-4431.	7.9	37
185	Assessing the antimicrobial activity of zinc oxide thin films using disk diffusion and biofilm reactor. Applied Surface Science, 2009, 255, 5806-5811.	6.1	40
186	Rapid prototyping of scaphoid and lunate bones. Biotechnology Journal, 2009, 4, 129-134.	3.5	42
187	Piezoelectric inkjet printing of a crossâ€hatch immunoassay on a disposable nylon membrane. Biotechnology Journal, 2009, 4, 206-209.	3.5	15
188	Nanoporous materials for biomedical devices. Jom, 2008, 60, 26-32.	1.9	58
189	Heterogeneous Deformable Modeling and Topology Modification for Surgical Cutting Simulation with Haptic Interfaces. Computer-Aided Design and Applications, 2008, 5, 877-888.	0.6	4
190	Mechanical and biological properties of nanoporous carbon membranes. Biomedical Materials (Bristol), 2008, 3, 034107.	3.3	13
191	Fabrication of Ag-tetracyanoquinodimethane nanostructures using ink-jet printing/vapor-solid chemical reaction process. Journal of Vacuum Science & Technology B, 2008, 26, L48-L52.	1.3	2
192	Growth of biepitaxial zinc oxide thin films on silicon (100) using yttria-stabilized zirconia buffer layer. Applied Physics Letters, 2008, 93, 251905.	3.3	15
193	Epitaxial growth and Ohmic contacts in MgxZn1âˆ'xOâˆ•TiNâˆ•Si(111) heterostructures. Applied Physics Letters, 2008, 93, .	3.3	4
194	Heterogeneous material modelling and virtual prototyping with 5-DOF haptic force feedback for product development. International Journal of Mechatronics and Manufacturing Systems, 2008, 1, 43.	0.1	9
195	Pulsed Laser Deposition of Nanoporous Cobalt Thin Films. Journal of Nanoscience and Nanotechnology, 2008, 8, 6043-6047.	0.9	3
196	DNA-Directed Self-Assembly of Fluorescent Dye-Labeled Streptavidin Arrays for Protein Detection. Journal of Nanoscience and Nanotechnology, 2008, 8, 6048-6051.	0.9	1
197	Snapping algorithm and heterogeneous bio-tissues modeling for medical surgical simulation and product prototyping. Virtual and Physical Prototyping, 2007, 2, 89-101.	10.4	10
198	Nanoporous Hard Carbon Membranes for Medical Applications. Journal of Nanoscience and Nanotechnology, 2007, 7, 1486-1493.	0.9	17

#	Article	IF	Citations
199	Compositional and Electrochemical Characterization of Noble Metalâ^'Diamondlike Carbon Nanocomposite Thin Films. Langmuir, 2007, 23, 6812-6818.	3.5	19
200	Electrochemical Biosensors and Microfluidics in Organic System-on-Package Technology. , 2007, , .		6
201	Next generation biomaterials. Materials Science and Engineering C, 2007, 27, 345-346.	7.3	1
202	Recent developments in rapid prototyping of biomaterials. Biotechnology Journal, 2007, 2, 1340-1341.	3.5	2
203	Collaborative Haptic Interfaces and Distributed Control for Product Development and Virtual Prototyping. , 2007, , .		7
204	Stiff subcircuit islands of diamondlike carbon for stretchable electronics. Journal of Applied Physics, 2006, 100, 014913.	2.5	109
205	Diamond-Like Carbon: Medical and Mechanical Applications. , 2006, , 333-361.		5
206	Hemocompatibility of diamondlike carbonâ€"metal composite thin films. Diamond and Related Materials, 2006, 15, 1941-1948.	3.9	51
207	In situ annealing of hydroxyapatite thin films. Materials Science and Engineering C, 2006, 26, 1312-1316.	7.3	29
208	Piezoelectric ink jet processing of materials for medicaland biological applications. Biotechnology Journal, 2006, 1, 976-987.	3.5	106
209	The use of functionally gradient materials in medicine. Jom, 2006, 58, 52-56.	1.9	15
210	Structural and optical properties of hexagonal MgxZn1â^'xO thin films. Journal of Electronic Materials, 2006, 35, 869-876.	2.2	18
211	Pulsed laser deposition of hydroxyapatite-diamondlike carbon multilayer films and their adhesion aspects. Journal of Adhesion Science and Technology, 2006, 20, 221-231.	2.6	11
212	Growth and Characterization of Mg0.15Zn0.85O Thin Films by Pulsed Laser Deposition. Materials Research Society Symposia Proceedings, 2006, 957, 1.	0.1	0
213	Vertically self-organized gold nanoparticles in amorphous alumina matrices. Materials Research Society Symposia Proceedings, 2006, 960, 1.	0.1	0
214	Optical and Electrical Properties of Gallium-Doped Mg15Zn85O Thin Films. Materials Research Society Symposia Proceedings, 2006, 957, 1.	0.1	1
215	Three-dimensional self-organization of crystalline gold nanoparticles in amorphous alumina. Applied Physics Letters, 2006, 89, 261103.	3.3	11
216	Epitaxial growth of zinc oxide thin films on silicon. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2005, 117, 348-354.	3.5	42

#	Article	IF	Citations
217	Structural and biological properties of carbon nanotube composite films. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2005, 123, 123-129.	3.5	99
218	Nanostructured diamondlike carbon thin films for medical applications. Materials Science and Engineering C, 2005, 25, 405-416.	7.3	53
219	Hydroxyapatiteâ€“diamondlike carbon nanocomposite films. Materials Science and Engineering C, 2005, 25, 398-404.	7.3	13
220	Hydroxyapatite/diamondlike Carbon Nanocomposites: A Novel Surface Modification to Extend Orthopaedic Prosthesis Lifetimes. Journal of Materials Research, 2005, 20, 2288-2295.	2.6	2
221	Nanostructured carbon-metal composite films. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2005, 23, 1041.	1.6	21
222	Ultraviolet-illumination-enhanced photoluminescence effect in zinc oxide thin films. Journal of Applied Physics, 2005, 98, 083707.	2.5	44
223	Matrix Assisted Pulsed Laser Evaporation of Dexamethasone Thin Films. Materials Research Society Symposia Proceedings, 2004, 845, 82.	0.1	0
224	Nanostructured ceramics in medical devices: Applications and prospects. Jom, 2004, 56, 38-43.	1.9	73
225	Adhesion properties of functionally gradient diamond composite films on medical and tool alloys. Journal of Adhesion Science and Technology, 2004, 18, 1339-1365.	2.6	12
226	Matrix Assisted Pulsed Laser Evaporation of Poly (D, L) Lactic Acid Films. Materials Research Society Symposia Proceedings, 2004, 845, 258.	0.1	0
227	DLC/Hydroxyapatite Nanocomposites. Materials Research Society Symposia Proceedings, 2003, 795, 223.	0.1	0
228	Improved Tribological Properties of Diamondlike Carbon/Metal Nanocomposites. Materials Research Society Symposia Proceedings, 2003, 788, 521.	0.1	0
229	Sterilizing Properties of Carbon Nanotube Composites. Materials Research Society Symposia Proceedings, 2003, 785, 921.	0.1	0
230	Artificial intelligence for enhancing catalysis. MRS Bulletin, 0, , 1.	3.5	2
231	Antifungal behavior of siliconâ€incorporated diamondâ€like carbon by tuning surface hydrophobicity with plasma treatment. International Journal of Applied Ceramic Technology, 0, , .	2.1	0
232	Effect of oxygen and fluorine plasma surface treatment of siliconâ€incorporated diamondâ€like carbon coatings on cellular responses of mouse fibroblasts. International Journal of Applied Ceramic Technology, 0, , .	2.1	0