

Roger J Narayan

List of Publications by Year in descending order

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232
papers

7,196
citations

53794

45
h-index

76900

74
g-index

238
all docs

238
docs citations

238
times ranked

9043
citing authors

#	ARTICLE	IF	CITATIONS
1	Stereolithography in tissue engineering. <i>Journal of Materials Science: Materials in Medicine</i> , 2014, 25, 845-856.	3.6	247
2	Nanoporous membranes for medical and biological applications. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2009, 1, 568-581.	6.1	222
3	Medical prototyping using two photon polymerization. <i>Materials Today</i> , 2010, 13, 42-48.	14.2	209
4	Wearable Electrochemical Microneedle Sensor for Continuous Monitoring of Levodopa: Toward Parkinson Management. <i>ACS Sensors</i> , 2019, 4, 2196-2204.	7.8	196
5	Gelatin-based hydrogels for biomedical applications. <i>MRS Communications</i> , 2017, 7, 416-426.	1.8	184
6	Two-photon polymerization for biological applications. <i>Materials Today</i> , 2017, 20, 314-322.	14.2	173
7	Fabrication of microscale medical devices by two-photon polymerization with multiple foci via a spatial light modulator. <i>Biomedical Optics Express</i> , 2011, 2, 3167.	2.9	151
8	Microneedle-based self-powered glucose sensor. <i>Electrochemistry Communications</i> , 2014, 47, 58-62.	4.7	150
9	Inkjet printing for pharmaceutical applications. <i>Materials Today</i> , 2014, 17, 247-252.	14.2	136
10	Microneedle array-based carbon paste amperometric sensors and biosensors. <i>Analyst</i> , The, 2011, 136, 1846.	3.5	130
11	Laser direct writing of micro- and nano-scale medical devices. <i>Expert Review of Medical Devices</i> , 2010, 7, 343-356.	2.8	126
12	Semiconductor-metal transition characteristics of VO ₂ thin films grown on c- and r-sapphire substrates. <i>Journal of Applied Physics</i> , 2010, 107, .	2.5	124
13	Two-photon polymerization of microneedles for transdermal drug delivery. <i>Expert Opinion on Drug Delivery</i> , 2010, 7, 513-533.	5.0	122
14	The effects of geometry on skin penetration and failure of polymer microneedles. <i>Journal of Adhesion Science and Technology</i> , 2013, 27, 227-243.	2.6	118
15	Microneedle-Based Transdermal Sensor for On-Chip Potentiometric Determination of K ⁺ . <i>Advanced Healthcare Materials</i> , 2014, 3, 876-881.	7.6	116
16	Stiff subcircuit islands of diamondlike carbon for stretchable electronics. <i>Journal of Applied Physics</i> , 2006, 100, 014913.	2.5	109
17	Multiplexed microneedle-based biosensor array for characterization of metabolic acidosis. <i>Talanta</i> , 2012, 88, 739-742.	5.5	107
18	Piezoelectric ink jet processing of materials for medical and biological applications. <i>Biotechnology Journal</i> , 2006, 1, 976-987.	3.5	106

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19	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
20	Microneedle-based sensors for medical diagnosis. Journal of Materials Chemistry B, 2016, 4, 1379-1383.	5.8	100
21	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
22	Bicomponent Microneedle Array Biosensor for Minimally Invasive Glutamate Monitoring. Electroanalysis, 2011, 23, 2302-2309.	2.9	99
23	Integrated carbon fiber electrodes within hollow polymer microneedles for transdermal electrochemical sensing. Biomicrofluidics, 2011, 5, 13415.	2.4	96
24	Gradient scaffolds for osteochondral tissue engineering and regeneration. Journal of Materials Chemistry B, 2020, 8, 8149-8170.	5.8	88
25	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
26	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
27	Use of nanomaterials in water purification. Materials Today, 2010, 13, 44-46.	14.2	76
28	Nanostructured ceramics in medical devices: Applications and prospects. Jom, 2004, 56, 38-43.	1.9	73
29	Solvent-based Extrusion 3D Printing for the Fabrication of Tissue Engineering Scaffolds. International Journal of Bioprinting, 2019, 6, 211.	3.4	73
30	Semiconductor to metal transition characteristics of VO ₂ thin films grown epitaxially on Si (001). Applied Physics Letters, 2009, 95, .	3.3	72
31	Laser micromachining for biomedical applications. Jom, 2009, 61, 35-40.	1.9	70
32	Multiphoton microscopy of transdermal quantum dot delivery using two photon polymerization-fabricated polymer microneedles. Faraday Discussions, 2011, 149, 171-185.	3.2	70
33	Biological responses to immobilized microscale and nanoscale surface topographies. , 2018, 182, 33-55.		68
34	Polyglycolic acid microneedles modified with inkjet-deposited antifungal coatings. Biointerphases, 2015, 10, 011004.	1.6	65
35	Medical applications of diamond particles & surfaces. Materials Today, 2011, 14, 154-163.	14.2	61
36	Current Advancements in Transdermal Biosensing and Targeted Drug Delivery. Sensors, 2019, 19, 1028.	3.8	61

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37	Two Photon Polymerizationâ€Micromolding of Polyethylene Glycolâ€Gentamicin Sulfate Microneedles. <i>Advanced Engineering Materials</i> , 2010, 12, B77-B82.	3.5	60
38	Nanoporous materials for biomedical devices. <i>Jom</i> , 2008, 60, 26-32.	1.9	58
39	Deposition of antimicrobial coatings on microstereolithography-fabricated microneedles. <i>Jom</i> , 2011, 63, 59-68.	1.9	58
40	Nanostructured diamondlike carbon thin films for medical applications. <i>Materials Science and Engineering C</i> , 2005, 25, 405-416.	7.3	53
41	Fabrication of Microneedles Using Two Photon Polymerization for Transdermal Delivery of Nanomaterials. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 6305-6312.	0.9	52
42	Nitrogen-incorporated ultrananocrystalline diamond microneedle arrays for electrochemical biosensing. <i>Diamond and Related Materials</i> , 2015, 54, 39-46.	3.9	52
43	Hemocompatibility of diamondlike carbonâ€metal composite thin films. <i>Diamond and Related Materials</i> , 2006, 15, 1941-1948.	3.9	51
44	Recent advances in carbon nanomaterials for biomedical applications: A review. <i>Current Opinion in Biomedical Engineering</i> , 2021, 17, 100262.	3.4	50
45	The next generation of biomaterial development. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2010, 368, 1831-1837.	3.4	49
46	<i>In Situ</i> Collagen Polymerization of Layered Cell-Seeded Electrospun Scaffolds for Bone Tissue Engineering Applications. <i>Tissue Engineering - Part C: Methods</i> , 2010, 16, 1095-1105.	2.1	47
47	Inkjet Printing of Amphotericin B onto Biodegradable Microneedles Using Piezoelectric Inkjet Printing. <i>Jom</i> , 2013, 65, 525-533.	1.9	47
48	Ultraviolet-illumination-enhanced photoluminescence effect in zinc oxide thin films. <i>Journal of Applied Physics</i> , 2005, 98, 083707.	2.5	44
49	Inkjet printing of bioadhesives. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2009, 89B, 28-35.	3.4	44
50	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. <i>Biointerphases</i> , 2019, 14, 021007.	1.6	44
51	Epitaxial growth of zinc oxide thin films on silicon. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2005, 117, 348-354.	3.5	42
52	Rapid prototyping of scaphoid and lunate bones. <i>Biotechnology Journal</i> , 2009, 4, 129-134.	3.5	42
53	Antifungal Textiles Formed Using Silver Deposition in Supercritical Carbon Dioxide. <i>Journal of Materials Engineering and Performance</i> , 2010, 19, 368-373.	2.5	42
54	Indirect rapid prototyping of antibacterial acid anhydride copolymer microneedles. <i>Biofabrication</i> , 2012, 4, 011002.	7.1	42

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55	Multiplexed and switchable release of distinct fluids from microneedle platforms via conducting polymer nanoactuators for potential drug delivery. <i>Sensors and Actuators B: Chemical</i> , 2012, 161, 1018-1024.	7.8	42
56	Assessing the antimicrobial activity of zinc oxide thin films using disk diffusion and biofilm reactor. <i>Applied Surface Science</i> , 2009, 255, 5806-5811.	6.1	40
57	Finite element evaluations of the mechanical properties of polycaprolactone/hydroxyapatite scaffolds by direct ink writing: Effects of pore geometry. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 104, 103665.	3.1	39
58	Atomic layer deposition of TiO ₂ thin films on nanoporous alumina templates: Medical applications. <i>Jom</i> , 2009, 61, 12-16.	1.9	38
59	Transdermal Delivery of Insulin via Microneedles. <i>Journal of Biomedical Nanotechnology</i> , 2014, 10, 2244-2260.	1.1	38
60	Inkjet deposition of itraconazole onto poly(glycolic acid) microneedle arrays. <i>Biointerphases</i> , 2016, 11, 011008.	1.6	38
61	Inkjet dispensing technologies: recent advances for novel drug discovery. <i>Expert Opinion on Drug Discovery</i> , 2019, 14, 101-113.	5.0	38
62	Thin film epitaxy and structure property correlations for non-polar ZnO films. <i>Acta Materialia</i> , 2009, 57, 4426-4431.	7.9	37
63	Atomic layer deposition-based functionalization of materials for medical and environmental health applications. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2010, 368, 2033-2064.	3.4	35
64	Towards an Integrated Microneedle Total Analysis Chip for Protein Detection. <i>Electroanalysis</i> , 2016, 28, 1305-1310.	2.9	35
65	Atomic layer deposition of nanoporous biomaterials. <i>Materials Today</i> , 2010, 13, 60-64.	14.2	33
66	Mitochondria-targeted graphene for advanced cancer therapeutics. <i>Acta Biomaterialia</i> , 2021, 129, 43-56.	8.3	33
67	Graphene quantum dot-based electrochemical biosensing for early cancer detection. <i>Current Opinion in Electrochemistry</i> , 2021, 30, 100786.	4.8	33
68	Physics of bioprinting. <i>Applied Physics Reviews</i> , 2019, 6, .	11.3	32
69	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. <i>Polymers</i> , 2020, 12, 1489.	4.5	32
70	Direct ink writing of polycaprolactone / polyethylene oxide based 3D constructs. <i>Progress in Natural Science: Materials International</i> , 2021, 31, 180-191.	4.4	31
71	In situ annealing of hydroxyapatite thin films. <i>Materials Science and Engineering C</i> , 2006, 26, 1312-1316.	7.3	29
72	Cytotoxic evaluation of nanostructured zinc oxide (ZnO) thin films and leachates. <i>Toxicology in Vitro</i> , 2014, 28, 1144-1152.	2.4	29

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73	Optical Biosensors for Diagnostics of Infectious Viral Disease: A Recent Update. <i>Diagnostics</i> , 2021, 11, 2083.	2.6	29
74	Recent Advancement in Biofluid-Based Glucose Sensors Using Invasive, Minimally Invasive, and Non-Invasive Technologies: A Review. <i>Nanomaterials</i> , 2022, 12, 1082.	4.1	29
75	Microreplication of laser-fabricated surface and three-dimensional structures. <i>Journal of Optics (United Kingdom)</i> , 2010, 12, 124009.	2.2	27
76	Atomic layer deposition of titanium dioxide on cellulose acetate for enhanced hemostasis. <i>Biotechnology Journal</i> , 2011, 6, 213-223.	3.5	27
77	Biocompatibility and functionalization of diamond for neural applications. <i>Current Opinion in Biomedical Engineering</i> , 2019, 10, 60-68.	3.4	27
78	Simultaneous Detection of Dopamine, Ascorbic Acid and Uric Acid at Lithographically Defined 3D Graphene Electrodes. <i>Electroanalysis</i> , 2014, 26, 52-56.	2.9	26
79	Graphene Quantum Dots-Based Electrochemical Biosensing Platform for Early Detection of Acute Myocardial Infarction. <i>Biosensors</i> , 2022, 12, 77.	4.7	26
80	Laser-patterned carbon coatings on flexible and optically transparent plastic substrates for advanced biomedical sensing and implant applications. <i>Journal of Materials Chemistry C</i> , 2022, 10, 2965-2975.	5.5	25
81	Supercapacitive transport of pharmacologic agents using nanoporous gold electrodes. <i>Biotechnology Journal</i> , 2010, 5, 192-200.	3.5	24
82	Optical and electrical properties of gallium-doped $Mg_xZn_{1-x}O$. <i>Journal of Applied Physics</i> , 2010, 107, 013510.	2.5	24
83	Semipolar r-plane ZnO films on Si(100) substrates: Thin film epitaxy and optical properties. <i>Journal of Applied Physics</i> , 2010, 107, 113530.	2.5	23
84	Nanostructured diamond for biomedical applications. <i>Nanotechnology</i> , 2021, 32, 132001.	2.6	23
85	Role of twin boundaries in semiconductor to metal transition characteristics of VO ₂ films. <i>Applied Physics Letters</i> , 2010, 97, .	3.3	22
86	Progress in Wear Resistant Materials for Total Hip Arthroplasty. <i>Coatings</i> , 2017, 7, 99.	2.6	22
87	Crossing the blood-brain barrier with graphene nanostructures. <i>Materials Today</i> , 2021, 51, 393-401.	14.2	22
88	Nanostructured carbon-metal composite films. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2005, 23, 1041.	1.6	21
89	Optical and electrical properties of bandgap engineered gallium-doped films. <i>Solid State Communications</i> , 2009, 149, 1670-1673.	1.9	21
90	Biological evaluation of ultrananocrystalline and nanocrystalline diamond coatings. <i>Journal of Materials Science: Materials in Medicine</i> , 2016, 27, 187.	3.6	21

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91	Liquid-Phase Laser Induced Forward Transfer for Complex Organic Inks and Tissue Engineering. <i>Annals of Biomedical Engineering</i> , 2017, 45, 84-99.	2.5	21
92	Synthesis of multifunctional microdiamonds on stainless steel substrates by chemical vapor deposition. <i>Carbon</i> , 2021, 171, 739-749.	10.3	21
93	Effect of Photoinitiator on Precursory Stability and Curing Depth of Thiol-Ene Clickable Gelatin. <i>Polymers</i> , 2021, 13, 1877.	4.5	21
94	Laser micro- and nanofabrication of biomaterials. <i>MRS Bulletin</i> , 2011, 36, 973-982.	3.5	20
95	Hollow Microneedle-based Sensor for Multiplexed Transdermal Electrochemical Sensing. <i>Journal of Visualized Experiments</i> , 2012, , e4067.	0.3	20
96	Compositional and Electrochemical Characterization of Noble Metal [~] Diamondlike Carbon Nanocomposite Thin Films. <i>Langmuir</i> , 2007, 23, 6812-6818.	3.5	19
97	Hydrogel-based microfluidics for vascular tissue engineering. <i>BioNanoMaterials</i> , 2016, 17, 19-32.	1.4	19
98	3D printing and bioprinting using multiphoton lithography. <i>Bioprinting</i> , 2020, 20, e00090.	5.8	19
99	Structural and optical properties of hexagonal Mg _x Zn _{1-x} O thin films. <i>Journal of Electronic Materials</i> , 2006, 35, 869-876.	2.2	18
100	Microneedle-Based Delivery of Amphotericin B for Treatment of Cutaneous Leishmaniasis. <i>Biomedical Microdevices</i> , 2019, 21, 8.	2.8	18
101	Organotrialkoxysilane-Functionalized Noble Metal Monometallic, Bimetallic, and Trimetallic Nanoparticle Mediated Non-Enzymatic Sensing of Glucose by Resonance Rayleigh Scattering. <i>Biosensors</i> , 2021, 11, 122.	4.7	18
102	Nanoporous Hard Carbon Membranes for Medical Applications. <i>Journal of Nanoscience and Nanotechnology</i> , 2007, 7, 1486-1493.	0.9	17
103	Effects of nanotopography on the <i>in vitro</i> hemocompatibility of nanocrystalline diamond coatings. <i>Journal of Biomedical Materials Research - Part A</i> , 2017, 105, 253-264.	4.0	17
104	Nanosilver-PMMA composite coating optimized to provide robust antibacterial efficacy while minimizing human bone marrow stromal cell toxicity. <i>Toxicology in Vitro</i> , 2017, 44, 248-255.	2.4	17
105	Transdermal Polymeric Microneedle Sensing Platform for Fentanyl Detection in Biofluid. <i>Biosensors</i> , 2022, 12, 198.	4.7	17
106	Fabrication of Hollow Metal Microneedle Arrays Using a Molding and Electroplating Method. <i>MRS Advances</i> , 2019, 4, 1417-1426.	0.9	16
107	Graphene nanocomposites for transdermal biosensing. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2021, 13, e1699.	6.1	16
108	The use of functionally gradient materials in medicine. <i>Jom</i> , 2006, 58, 52-56.	1.9	15

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109	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
110	Piezoelectric inkjet printing of a cross-hatch immunoassay on a disposable nylon membrane. Biotechnology Journal, 2009, 4, 206-209.	3.5	15
111	Two-photon polymerization of 3-D zirconium oxide hybrid scaffolds for long-term stem cell growth. Biointerphases, 2014, 9, 029014.	1.6	15
112	Controlled synthesis of polyethylenimine coated gold nanoparticles: Application in glutathione sensing and nucleotide delivery. , 2017, 105, 1191-1199.		15
113	Tissue specific stem/progenitor cells for cartilage tissue engineering: A systematic review of the literature. Applied Physics Reviews, 2019, 6, 031301.	11.3	15
114	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
115	Cytotoxicity of cultured macrophages exposed to antimicrobial zinc oxide (ZnO) coatings on nanoporous aluminum oxide membranes. Biomatter, 2013, 3, .	2.6	14
116	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
117	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
118	Organotrialkoxysilane-Functionalized Prussian Blue Nanoparticles-Mediated Fluorescence Sensing of Arsenic(III). Nanomaterials, 2021, 11, 1145.	4.1	14
119	Laser-based bioprinting for multilayer cell patterning in tissue engineering and cancer research. Essays in Biochemistry, 2021, 65, 409-416.	4.7	14
120	Physicochemical parameters that underlie inkjet printing for medical applications. Biophysics Reviews, 2020, 1, .	2.7	14
121	Recent advances of boron-doped diamond electrochemical sensors toward environmental applications. Current Opinion in Electrochemistry, 2022, 32, 100920.	4.8	14
122	Hydroxyapatite-diamondlike carbon nanocomposite films. Materials Science and Engineering C, 2005, 25, 398-404.	7.3	13
123	Mechanical and biological properties of nanoporous carbon membranes. Biomedical Materials (Bristol), 2008, 3, 034107.	3.3	13
124	<i>In Vitro</i> Cytotoxicity of Rare Earth Oxide Nanoparticles for Imaging Applications. International Journal of Applied Ceramic Technology, 2012, 9, 881-892.	2.1	13
125	Rapid and label-free detection of COVID-19 using coherent anti-Stokes Raman scattering microscopy. MRS Communications, 2020, 10, 566-572.	1.8	13
126	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

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127	Direct ink writing of vancomycin-loaded polycaprolactone/ polyethylene oxide/ hydroxyapatite 3D scaffolds. <i>Journal of the American Ceramic Society</i> , 2022, 105, 1821-1840.	3.8	13
128	Adhesion properties of functionally gradient diamond composite films on medical and tool alloys. <i>Journal of Adhesion Science and Technology</i> , 2004, 18, 1339-1365.	2.6	12
129	Hybrid client-server architecture and control techniques for collaborative product development using haptic interfaces. <i>Computers in Industry</i> , 2010, 61, 83-96.	9.9	12
130	Polyethylenimine-mediated synthetic insertion of gold nanoparticles into mesoporous silica nanoparticles for drug loading and biocatalysis. <i>Biointerphases</i> , 2017, 12, 011005.	1.6	12
131	Argon and oxygen plasma treatment increases hydrophilicity and reduces adhesion of silicon-incorporated diamond-like coatings. <i>Biointerphases</i> , 2020, 15, 041007.	1.6	12
132	Advances in laser-assisted conversion of polymeric and graphitic carbon into nanodiamond films. <i>Nanotechnology</i> , 2021, 32, .	2.6	12
133	Printing amphotericin B on microneedles using matrixassisted pulsed laser evaporation. <i>International Journal of Bioprinting</i> , 2017, 3, 147.	3.4	12
134	Pulsed laser deposition of hydroxyapatite-diamondlike carbon multilayer films and their adhesion aspects. <i>Journal of Adhesion Science and Technology</i> , 2006, 20, 221-231.	2.6	11
135	Three-dimensional self-organization of crystalline gold nanoparticles in amorphous alumina. <i>Applied Physics Letters</i> , 2006, 89, 261103.	3.3	11
136	Titania: a material-based approach to oil spill remediation?. <i>Materials Today</i> , 2010, 13, 58-59.	14.2	11
137	Enhanced nucleation and large-scale growth of CVD diamond via surface-modification of silicon-incorporated diamond-like carbon thin films. <i>Diamond and Related Materials</i> , 2021, 120, 108630.	3.9	11
138	One-Step Formation of Reduced Graphene Oxide from Insulating Polymers Induced by Laser Writing Method. <i>Crystals</i> , 2021, 11, 1308.	2.2	11
139	Snapping algorithm and heterogeneous bio-tissues modeling for medical surgical simulation and product prototyping. <i>Virtual and Physical Prototyping</i> , 2007, 2, 89-101.	10.4	10
140	Growth of Zirconia on Nanoporous Alumina Using Molecular Layer Deposition. <i>Jom</i> , 2014, 66, 649-653.	1.9	10
141	Ultrananocrystalline diamond-coated nanoporous membranes support SK-N-SH neuroblastoma endothelial cell attachment. <i>Interface Focus</i> , 2018, 8, 20170063.	3.0	10
142	Molecular weight of polyethylenimine-dependent transfection and selective antimicrobial activity of functional silver nanoparticles. <i>Journal of Materials Research</i> , 2020, 35, 2405-2415.	2.6	10
143	Tunable Quantum Photoinitiators for Radical Photopolymerization. <i>Polymers</i> , 2021, 13, 2694.	4.5	10
144	Translation of 3D printed materials for medical applications. <i>MRS Bulletin</i> , 2022, 47, 39-48.	3.5	10

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145	Heterogeneous material modelling and virtual prototyping with 5-DOF haptic force feedback for product development. <i>International Journal of Mechatronics and Manufacturing Systems</i> , 2008, 1, 43.	0.1	9
146	Piezoelectric inkjet printing of medical adhesives and sealants. <i>Jom</i> , 2010, 62, 56-60.	1.9	9
147	Inkjet Printing of Cyanoacrylate Adhesive. <i>Journal of Adhesion</i> , 2010, 86, 1-9.	3.0	9
148	Injection molding for manufacturing of solid poly(l-lactide-co-glycolide) microneedles. <i>MRS Advances</i> , 2021, 6, 61-65.	0.9	9
149	Translation of laser-based three-dimensional printing technologies. <i>MRS Bulletin</i> , 2021, 46, 174-185.	3.5	9
150	Liquid phase regrowth of ~110% nanodiamond film by UV laser annealing of PTFE to generate dense CVD microdiamond film. <i>Diamond and Related Materials</i> , 2021, 117, 108481.	3.9	9
151	Enhanced Vapor Transmission Barrier Properties via Silicon-Incorporated Diamond-Like Carbon Coating. <i>Polymers</i> , 2021, 13, 3543.	4.5	9
152	Size and Zeta Potential Clicked Germination Attenuation and Anti-Sporangiospores Activity of PEI-Functionalized Silver Nanoparticles against COVID-19 Associated Mucorales (<i>Rhizopus arrhizus</i>). <i>Nanomaterials</i> , 2022, 12, 2235.	4.1	9
153	Analytical methods for detection of Zika virus. <i>MRS Communications</i> , 2017, 7, 121-130.	1.8	8
154	Minimally Invasive Platforms in Biosensing. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 894.	4.1	8
155	Electrochemical Sensing and Removal of Cesium from Water Using Prussian Blue Nanoparticle-Modified Screen-Printed Electrodes. <i>Chemosensors</i> , 2021, 9, 253.	3.6	8
156	Formation of Q-carbon with wafer scale integration. <i>Carbon</i> , 2022, 196, 972-978.	10.3	8
157	Vascular tissue engineering by computer-aided laser micromachining. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2010, 368, 1891-1912.	3.4	7
158	Diagnostic Devices: Microneedle-Based Transdermal Sensor for On-Chip Potentiometric Determination of K^{+} (Adv. Healthcare Mater. 6/2014). <i>Advanced Healthcare Materials</i> , 2014, 3, 948-948.	7.6	7
159	Microneedle-based transdermal electrochemical biosensors based on Prussian blue-gold nanohybrid modified screen-printed electrodes. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2021, 109, 33-49.	3.4	7
160	Correlation of zeta potential and contact angle of oxygen and fluorine terminated nitrogen incorporated ultrananocrystalline diamond (N-UNCD) thin films. <i>Materials Letters</i> , 2021, 295, 129823.	2.6	7
161	Collaborative Haptic Interfaces and Distributed Control for Product Development and Virtual Prototyping. , 2007, , .		7
162	Drug Release Kinetics of DOX-Loaded Graphene-Based Nanocarriers for Ovarian and Breast Cancer Therapeutics. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 11151.	2.5	7

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163	Novel photonic methods for diagnosis of <sc>SARSâ€CoV</sc>â€2 infection. Translational Biophotonics, 2022, 4, .	2.7	7
164	Electrochemical Biosensors and Microfluidics in Organic System-on-Package Technology. , 2007, , .		6
165	Ultrananocrystalline Diamond-Coated Microporous Silicon Nitride Membranes for Medical Implant Applications. Jom, 2012, 64, 520-525.	1.9	6
166	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
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