

Kenneth Gall

List of Publications by Year in descending order

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151
papers

11,838
citations

25034

57
h-index

28297

105
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154
all docs

154
docs citations

154
times ranked

8909
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermomechanics of shape memory polymers: Uniaxial experiments and constitutive modeling. <i>International Journal of Plasticity</i> , 2006, 22, 279-313.	8.8	650
2	Unconstrained recovery characterization of shape-memory polymer networks for cardiovascular applications. <i>Biomaterials</i> , 2007, 28, 2255-2263.	11.4	536
3	Surface-stress-induced phase transformation in metal nanowires. <i>Nature Materials</i> , 2003, 2, 656-660.	27.5	477
4	Shape memory polymer nanocomposites. <i>Acta Materialia</i> , 2002, 50, 5115-5126.	7.9	388
5	Strong, Tailored, Biocompatible Shape-Memory Polymer Networks. <i>Advanced Functional Materials</i> , 2008, 18, 2428-2435.	14.9	321
6	Atomistic simulation of the structure and elastic properties of gold nanowires. <i>Journal of the Mechanics and Physics of Solids</i> , 2004, 52, 1935-1962.	4.8	300
7	Deformation of FCC nanowires by twinning and slip. <i>Journal of the Mechanics and Physics of Solids</i> , 2006, 54, 1862-1881.	4.8	294
8	The role of texture in tension-compression asymmetry in polycrystalline NiTi. <i>International Journal of Plasticity</i> , 1999, 15, 69-92.	8.8	292
9	Shape Memory and Pseudoelasticity in Metal Nanowires. <i>Physical Review Letters</i> , 2005, 95, 255504.	7.8	282
10	The Strength of Gold Nanowires. <i>Nano Letters</i> , 2004, 4, 2431-2436.	9.1	280
11	Thermomechanics of shape memory polymer nanocomposites. <i>Mechanics of Materials</i> , 2004, 36, 929-940.	3.2	266
12	Atomistic simulations of the yielding of gold nanowires. <i>Acta Materialia</i> , 2006, 54, 643-653.	7.9	242
13	Effect of chemical structure and crosslinking density on the thermo-mechanical properties and toughness of (meth)acrylate shape memory polymer networks. <i>Polymer</i> , 2008, 49, 4446-4455.	3.8	219
14	High-Strain Shape-Memory Polymers. <i>Advanced Functional Materials</i> , 2010, 20, 162-171.	14.9	214
15	Finite strain 3D thermoviscoelastic constitutive model for shape memory polymers. <i>Polymer Engineering and Science</i> , 2006, 46, 486-492.	3.1	210
16	Yield Strength Asymmetry in Metal Nanowires. <i>Nano Letters</i> , 2004, 4, 1863-1867.	9.1	207
17	Thermal processing of polycrystalline NiTi shape memory alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005, 405, 34-49.	5.6	194
18	A Synthetic Hydrogel Composite with the Mechanical Behavior and Durability of Cartilage. <i>Advanced Functional Materials</i> , 2020, 30, 2003451.	14.9	171

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19	High cycle fatigue of a die cast AZ91E-T4 magnesium alloy. <i>Acta Materialia</i> , 2004, 52, 1327-1336.	7.9	162
20	High-strength, surface-porous polyether-ether-ketone for load-bearing orthopedic implants. <i>Acta Biomaterialia</i> , 2015, 13, 159-167.	8.3	158
21	Atomistic simulations on the tensile debonding of an aluminum-silicon interface. <i>Journal of the Mechanics and Physics of Solids</i> , 2000, 48, 2183-2212.	4.8	157
22	Substrate Stiffness Controls Osteoblastic and Chondrocytic Differentiation of Mesenchymal Stem Cells without Exogenous Stimuli. <i>PLoS ONE</i> , 2017, 12, e0170312.	2.5	157
23	Porous PEEK improves the bone-implant interface compared to plasma-sprayed titanium coating on PEEK. <i>Biomaterials</i> , 2018, 185, 106-116.	11.4	155
24	Fatigue behavior of As-built selective laser melted titanium scaffolds with sheet-based gyroid microarchitecture for bone tissue engineering. <i>Acta Biomaterialia</i> , 2019, 94, 610-626.	8.3	149
25	On The Elastic Modulus of Metallic Nanowires. <i>Nano Letters</i> , 2008, 8, 3613-3618.	9.1	147
26	Shape-memory polymer networks with Fe ₃ O ₄ nanoparticles for remote activation. <i>Journal of Applied Polymer Science</i> , 2009, 112, 3166-3176.	2.6	132
27	Effect of microstructure on the fatigue of hot-rolled and cold-drawn NiTi shape memory alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 486, 389-403.	5.6	129
28	Cyclic plasticity at pores and inclusions in cast Al-Si alloys. <i>Engineering Fracture Mechanics</i> , 2003, 70, 1281-1302.	4.3	127
29	Fabrication of Biomedical Scaffolds Using Biodegradable Polymers. <i>Chemical Reviews</i> , 2021, 121, 11238-11304.	47.7	127
30	Stress-induced martensitic transformations and shape memory at nanometer scales. <i>Acta Materialia</i> , 2006, 54, 2223-2234.	7.9	123
31	Internal stress storage in shape memory polymer nanocomposites. <i>Applied Physics Letters</i> , 2004, 85, 290-292.	3.3	119
32	On the mechanical behavior of single crystal NiTi shape memory alloys and related polycrystalline phenomenon. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001, 317, 85-92.	5.6	118
33	Finite element analysis of the stress distributions near damaged Si particle clusters in cast Al-Si alloys. <i>Mechanics of Materials</i> , 2000, 32, 277-301.	3.2	116
34	Design and Structure-Function Characterization of 3D Printed Synthetic Porous Biomaterials for Tissue Engineering. <i>Advanced Healthcare Materials</i> , 2018, 7, e1701095.	7.6	111
35	Thermomechanical recovery couplings of shape memory polymers in flexure. <i>Smart Materials and Structures</i> , 2003, 12, 947-954.	3.5	106
36	The role of intergranular constraint on the stress-induced martensitic transformation in textured polycrystalline NiTi. <i>International Journal of Plasticity</i> , 2000, 16, 1189-1214.	8.8	104

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37	Cyclic deformation behavior of single crystal NiTi. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001, 314, 67-74.	5.6	102
38	Title is missing!. <i>International Journal of Fracture</i> , 2001, 108, 207-233.	2.2	102
39	Toward a self-deploying shape memory polymer neuronal electrode. <i>Journal of Neural Engineering</i> , 2006, 3, L23-L30.	3.5	97
40	Nanoindentation of shape memory polymer networks. <i>Polymer</i> , 2007, 48, 3213-3225.	3.8	96
41	A metallization and bonding approach for high performance carbon nanotube thermal interface materials. <i>Nanotechnology</i> , 2010, 21, 445705.	2.6	95
42	Fracture of precipitated NiTi shape memory alloys. <i>International Journal of Fracture</i> , 2001, 109, 189-207.	2.2	94
43	Atomistic characterization of pseudoelasticity and shape memory in NiTi nanopillars. <i>Acta Materialia</i> , 2012, 60, 6301-6311.	7.9	92
44	Effect of porous orthopaedic implant material and structure on load sharing with simulated bone ingrowth: A finite element analysis comparing titanium and PEEK. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018, 80, 68-76.	3.1	91
45	Helmet Modification to PPE With 3D Printing During the COVID-19 Pandemic at Duke University Medical Center: A Novel Technique. <i>Journal of Arthroplasty</i> , 2020, 35, S23-S27.	3.1	79
46	Structure-property relationships in photopolymerizable polymer networks: Effect of composition on the crosslinked structure and resulting thermomechanical properties of a (meth)acrylate-based system. <i>Journal of Applied Polymer Science</i> , 2008, 110, 1559-1572.	2.6	75
47	High-strength, porous additively manufactured implants with optimized mechanical osseointegration. <i>Biomaterials</i> , 2021, 279, 121206.	11.4	71
48	Molecular dynamics simulations of the shape-memory behaviour of polyisoprene. <i>Smart Materials and Structures</i> , 2007, 16, 1575-1583.	3.5	69
49	The effect of surface topography and porosity on the tensile fatigue of 3D printed Ti-6Al-4V fabricated by selective laser melting. <i>Materials Science and Engineering C</i> , 2019, 98, 726-736.	7.3	69
50	Getting PEEK to Stick to Bone: The Development of Porous PEEK for Interbody Fusion Devices. <i>Techniques in Orthopaedics</i> , 2017, 32, 158-166.	0.2	67
51	Computational micromechanics analysis of cyclic crack-tip behavior for microstructurally small cracks in dual-phase Al-Si alloys. <i>Engineering Fracture Mechanics</i> , 2001, 68, 1687-1706.	4.3	66
52	Characteristics of a commercially available silicon-on-insulator MEMS material. <i>Sensors and Actuators A: Physical</i> , 2007, 138, 130-144.	4.1	66
53	Do Surface Porosity and Pore Size Influence Mechanical Properties and Cellular Response to PEEK?. <i>Clinical Orthopaedics and Related Research</i> , 2016, 474, 2373-2383.	1.5	66
54	In-situ observations of high cycle fatigue mechanisms in cast AM60B magnesium in vacuum and water vapor environments. <i>International Journal of Fatigue</i> , 2004, 26, 59-70.	5.7	61

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55	Post-polymerization crosslinked polyurethane shape memory polymers. <i>Journal of Applied Polymer Science</i> , 2011, 121, 144-153.	2.6	60
56	On superelastic bending of shape memory alloy beams. <i>International Journal of Solids and Structures</i> , 2013, 50, 1664-1680.	2.7	60
57	Fatigue of injection molded and 3D printed polycarbonate urethane in solution. <i>Polymer</i> , 2017, 108, 121-134.	3.8	59
58	The effect of the glass transition temperature on the toughness of photopolymerizable (meth)acrylate networks under physiological conditions. <i>Polymer</i> , 2009, 50, 5112-5123.	3.8	58
59	Micro and Macro Deformation of Single Crystal NiTi. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2002, 124, 238-245.	1.4	57
60	Impact durability of porous polyether-ether-ketone (PEEK) and titanium-coated PEEK interbody fusion devices. <i>Spine Journal</i> , 2018, 18, 857-865.	1.3	57
61	Radiation crosslinked shape-memory polymers. <i>Polymer</i> , 2010, 51, 3551-3559.	3.8	56
62	Pullout strength of suture anchors: Effect of mechanical properties of trabecular bone. <i>Journal of Biomechanics</i> , 2010, 43, 1138-1145.	2.1	55
63	Structural transformations in NiTi shape memory alloy nanowires. <i>Journal of Applied Physics</i> , 2014, 115, .	2.5	54
64	Effect of crosslinking and long-term storage on the shape-memory behavior of (meth)acrylate-based shape-memory polymers. <i>Soft Matter</i> , 2012, 8, 7381.	2.7	53
65	A Possible Oriented Attachment Growth Mechanism for Silver Nanowire Formation. <i>Crystal Growth and Design</i> , 2015, 15, 1968-1974.	3.0	52
66	Remote activation of nanomagnetite reinforced shape memory polymer foam. <i>Smart Materials and Structures</i> , 2009, 18, 115014.	3.5	50
67	The effect of the trabecular microstructure on the pullout strength of suture anchors. <i>Journal of Biomechanics</i> , 2010, 43, 1953-1959.	2.1	49
68	Shape recovery of nanoscale imprints in a thermoset "shape memory" polymer. <i>Applied Physics Letters</i> , 2005, 86, 103108.	3.3	48
69	Bioinspired Mineral"Organic Bioresorbable Bone Adhesive. <i>Advanced Healthcare Materials</i> , 2018, 7, e1800467.	7.6	46
70	Mechanical Requirements of Shape-Memory Polymers in Biomedical Devices. <i>Polymer Reviews</i> , 2013, 53, 76-91.	10.9	45
71	Compression Forces of Internal and External Ankle Fixation Devices with Simulated Bone Resorption. <i>Foot and Ankle International</i> , 2010, 31, 76-85.	2.3	44
72	Impact of shape-memory programming on mechanically-driven recovery in polymers. <i>Polymer</i> , 2011, 52, 4947-4954.	3.8	41

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73	Environmentally influenced microstructurally small fatigue crack growth in cast magnesium. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005, 396, 143-154.	5.6	40
74	Tough, stable spiroacetal thiol-ene resin for 3D printing. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46259.	2.6	39
75	Structural Engineering with NiTi. I: Basic Materials Characterization. <i>Journal of Engineering Mechanics - ASCE</i> , 2007, 133, 1009-1018.	2.9	38
76	Structure and thermomechanical behavior of NiTiPt shape memory alloy wires. <i>Acta Biomaterialia</i> , 2009, 5, 257-267.	8.3	38
77	Compressive anisotropy of sheet and strut based porous Ti-6Al-4V scaffolds. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021, 115, 104243.	3.1	38
78	Deformation and fatigue of tough 3D printed elastomer scaffolds processed by fused deposition modeling and continuous liquid interface production. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017, 75, 1-13.	3.1	37
79	Change in surface roughness by dynamic shape-memory acrylate networks enhances osteoblast differentiation. <i>Biomaterials</i> , 2016, 110, 34-44.	11.4	36
80	Mechanical Effects of Galvanic Corrosion on Structural Polysilicon. <i>Journal of Microelectromechanical Systems</i> , 2007, 16, 87-101.	2.5	34
81	A micromechanical analysis of the coupled thermomechanical superelastic response of textured and untextured polycrystalline NiTi shape memory alloys. <i>Acta Materialia</i> , 2013, 61, 4542-4558.	7.9	33
82	Creep of thin film Au on bimaterial Au/Si microcantilevers. <i>Acta Materialia</i> , 2004, 52, 2133-2146.	7.9	32
83	Impact of surface porosity and topography on the mechanical behavior of high strength biomedical polymers. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016, 59, 459-473.	3.1	31
84	On the toughness of photopolymerizable (meth)acrylate networks for biomedical applications. <i>Journal of Applied Polymer Science</i> , 2009, 114, 2711-2722.	2.6	30
85	A surface stacking fault energy approach to predicting defect nucleation in surface-dominated nanostructures. <i>Journal of the Mechanics and Physics of Solids</i> , 2013, 61, 1915-1934.	4.8	30
86	3D printing of high-strength, porous, elastomeric structures to promote tissue integration of implants. <i>Journal of Biomedical Materials Research - Part A</i> , 2021, 109, 54-63.	4.0	30
87	Bearing area: A new indication for suture anchor pullout strength?. <i>Journal of Orthopaedic Research</i> , 2009, 27, 1048-1054.	2.3	29
88	Local deformation behavior of surface porous polyether-ether-ketone. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017, 65, 522-532.	3.1	28
89	Carbon Fiber Reinforced Shape Memory Polymer Composites. <i>Journal of Intelligent Material Systems and Structures</i> , 2000, 11, 877-886.	2.5	28
90	A Biomechanical Comparison of Initial Fixation Strength of 3 Different Methods of Anterior Cruciate Ligament Soft Tissue Graft Tibial Fixation. <i>American Journal of Sports Medicine</i> , 2007, 35, 949-954.	4.2	27

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91	Use of 3D Printed Bone Plate in Novel Technique to Surgically Correct Hallux Valgus Deformities. Techniques in Orthopaedics, 2016, 31, 181-189.	0.2	26
92	Effects of Surface Topography and Chemistry on Polyether-Ether-Ketone (PEEK) and Titanium Osseointegration. Spine, 2020, 45, E417-E424.	2.0	26
93	Pseudoelastic NiTiNOL in Orthopaedic Applications. Shape Memory and Superelasticity, 2020, 6, 332-341.	2.2	26
94	Numerical, experimental, nondestructive, and image analyses of damage progression in cast A356 aluminum notch tensile bars. Theoretical and Applied Fracture Mechanics, 2003, 39, 23-45.	4.7	25
95	Thermal cycling response of layered gold/polysilicon MEMS structures. Mechanics of Materials, 2004, 36, 45-55.	3.2	25
96	Functional repair of critically sized femoral defects treated with bioinspired titanium gyroid-sheet scaffolds. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 116, 104380.	3.1	24
97	Thermo-mechanical evolution of multilayer thin films: Part I. Mechanical behavior of Au/Cr/Si microcantilevers. Thin Solid Films, 2007, 515, 3208-3223.	1.8	22
98	Tough Semicrystalline Thiol-ene Photopolymers Incorporating Spiroacetal Alkenes. Macromolecules, 2017, 50, 4281-4291.	4.8	22
99	Thermomechanical Formation and Recovery of Nanoindentations in a Shape Memory Polymer Studied Using a Heated Tip. Scanning, 2008, 30, 197-202.	1.5	21
100	Pseudoelastic intramedullary nailing for tibio-calcaneal arthrodesis. Expert Review of Medical Devices, 2011, 8, 159-166.	2.8	21
101	Tip size effects on atomic force microscopy nanoindentation of a gold single crystal. Journal of Applied Physics, 2008, 104, .	2.5	20
102	Long-term toughness of photopolymerizable (meth)acrylate networks in aqueous environments. Acta Biomaterialia, 2011, 7, 558-567.	8.3	20
103	Analysis of the fatigue failure of a mountain bike front shock. Engineering Failure Analysis, 2004, 11, 375-386.	4.0	19
104	The effect of chemistry on the polymerization, thermo-mechanical properties and degradation rate of poly(β -amino ester) networks. Polymer, 2010, 51, 3130-3138.	3.8	19
105	Galvanic Corrosion of Miniaturized Polysilicon Structures. Electrochemical and Solid-State Letters, 2005, 8, G223.	2.2	18
106	Outcomes of Surgical Reconstruction Using Custom 3D-Printed Porous Titanium Implants for Critical-Sized Bone Defects of the Foot and Ankle. Foot and Ankle International, 2022, 43, 750-761.	2.3	18
107	Suppression of inelastic deformation of nanocoated thin film microstructures. Journal of Applied Physics, 2004, 95, 8216-8225.	2.5	17
108	Thermo-mechanical evolution of multilayer thin films: Part II. Microstructure evolution in Au/Cr/Si microcantilevers. Thin Solid Films, 2007, 515, 3224-3240.	1.8	17

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109	Compressive cyclic ratcheting and fatigue of synthetic, soft biomedical polymers in solution. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016, 54, 268-282.	3.1	17
110	Synthesis and thermomechanical behavior of (qua)ternary thiol-ene/(acrylate) copolymers. <i>Polymer</i> , 2009, 50, 5549-5558.	3.8	16
111	Anterior cruciate ligament fixation: Is radial force a predictor of the pullout strength of soft-tissue interference devices?. <i>Knee</i> , 2012, 19, 786-792.	1.6	16
112	Tensile Fatigue of Poly(Vinyl Alcohol) Hydrogels with Bio-Friendly Toughening Agents. <i>Macromolecular Materials and Engineering</i> , 2020, 305, 1900784.	3.6	16
113	Reinforcement and Fatigue of a Bioinspired Mineral-Organic Bioresorbable Bone Adhesive. <i>Advanced Healthcare Materials</i> , 2021, 10, e2001058.	7.6	16
114	Tailoring nitric oxide release with additive manufacturing to create antimicrobial surfaces. <i>Biomaterials Science</i> , 2021, 9, 3100-3111.	5.4	16
115	Modifying hernia mesh design to improve device mechanical performance and promote tension-free repair. <i>Journal of Biomechanics</i> , 2018, 71, 43-51.	2.1	14
116	Examining the viability of carbon fiber reinforced three-dimensionally printed prosthetic feet created by composite filament fabrication. <i>Prosthetics and Orthotics International</i> , 2018, 42, 644-651.	1.0	14
117	Free boundary effects and representative volume elements in 3D printed Ti-6Al-4V gyroid structures. <i>Journal of Materials Research</i> , 2020, 35, 2547-2555.	2.6	14
118	Integration of Basic Materials Research Into the Design of Cast Components by a Multi-Scale Methodology. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2000, 122, 355-362.	1.4	13
119	Thermomechanical response of bare and Al ₂ O ₃ -nanocoated Au/Si bilayer beams for microelectromechanical systems. <i>Journal of Materials Research</i> , 2003, 18, 1575-1587.	2.6	13
120	Galvanic corrosion induced degradation of tensile properties in micromachined polycrystalline silicon. <i>Applied Physics Letters</i> , 2007, 90, 191902.	3.3	13
121	Thermo-mechanical properties of semi-degradable Poly(β -amino ester)-co-methyl methacrylate networks under simulated physiological conditions. <i>Polymer</i> , 2011, 52, 4920-4927.	3.8	13
122	Effect of poly(ethylene glycol) diacrylate concentration on network properties and <i>in vivo</i> response of poly(β -amino ester) networks. <i>Journal of Biomedical Materials Research - Part A</i> , 2011, 96A, 320-329.	4.0	13
123	Structure-property relationships in 3D-printed poly(l-lactide-co- μ -caprolactone) degradable polymer. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021, 121, 104650.	3.1	13
124	Modulating antibiotic release from reservoirs in 3D-printed orthopedic devices to treat periprosthetic joint infection. <i>Journal of Orthopaedic Research</i> , 2020, 38, 2239-2249.	2.3	11
125	Poly(lactide-co- μ -caprolactone) scaffold promotes equivalent tissue integration and supports skin grafts compared to a predicate collagen scaffold. <i>Wound Repair and Regeneration</i> , 2021, 29, 1035-1050.	3.0	11
126	Semi-degradable poly(β -amino ester) networks with temporally controlled enhancement of mechanical properties. <i>Acta Biomaterialia</i> , 2014, 10, 3475-3483.	8.3	9

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127	Flaw Sensitivity and Tensile Fatigue of Poly(Vinyl Alcohol) Hydrogels. <i>Macromolecular Materials and Engineering</i> , 2021, 306, 2000679.	3.6	9
128	Effect of surface topography on in vitro osteoblast function and mechanical performance of <sc>3D</sc> printed titanium. <i>Journal of Biomedical Materials Research - Part A</i> , 2021, 109, 1792-1802.	4.0	9
129	Adjustable-Loop Femoral Cortical Suspensory Fixation for Patellar Tendon Anterior Cruciate Ligament Reconstruction: A Time Zero Biomechanical Comparison With Interference Screw Fixation. <i>American Journal of Sports Medicine</i> , 2018, 46, 1857-1862.	4.2	8
130	Rotational Wear and Friction of Ti-6Al-4V and CoCrMo against Polyethylene and Polycarbonate Urethane. <i>Biotribology</i> , 2021, 26, 100167.	1.9	8
131	Stochastic Modeling and identification of material parameters on structures produced by additive manufacturing. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021, 387, 114166.	6.6	8
132	Making the Grade with Students: The Case for Accessibility. <i>Journal of Engineering Education</i> , 2003, 92, 337-343.	3.0	7
133	Incipient yielding behavior during indentation for gold thin films before and after annealing. <i>Journal of Materials Research</i> , 2006, 21, 2480-2492.	2.6	7
134	Processing, structure, and properties of additively manufactured titanium scaffolds with gyroid-sheet architecture. <i>Additive Manufacturing</i> , 2021, 41, 101916.	3.0	7
135	Eight-Fold Intensification of Electrochemical Azidooxygenation with a Flow-Through Electrode. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 7648-7657.	6.7	7
136	Direct evidence of interfacial crystallization preventing weld formation during fused filament fabrication of poly(ether ether ketone). <i>Additive Manufacturing</i> , 2022, 51, 102604.	3.0	6
137	Polycarbonate Urethane Mesh: A New Material for Pelvic Reconstruction. <i>Female Pelvic Medicine and Reconstructive Surgery</i> , 2021, 27, e469-e475.	1.1	5
138	Shape-memory Polymers for Orthopaedic Soft-Tissue Repair. <i>Techniques in Orthopaedics</i> , 2017, 32, 141-148.	0.2	4
139	Application of a novel suture anchor to abdominal wall closure. <i>American Journal of Surgery</i> , 2019, 218, 1-6.	1.8	4
140	High-strength Composites Based on 3D Printed Porous Scaffolds Infused with a Bioresorbable Mineral-Organic Bone Adhesive. <i>Advanced Engineering Materials</i> , 2022, 24, .	3.5	4
141	Bioabsorbable Polymers Used in Knee Arthroscopy, Part 1. <i>Techniques in Knee Surgery</i> , 2006, 5, 193-198.	0.1	3
142	Biomaterials: Bioinspired Mineral-Organic Bioresorbable Bone Adhesive (<i>Adv. Healthcare Mater.</i>) Tj ETQq0 0 0 rgBT JOverlock 10 Tf 50 14	7.6	3
143	High-strength Hydrogel Attachment through Nanofibrous Reinforcement. <i>Advanced Healthcare Materials</i> , 2021, 10, e2001119.	7.6	3
144	Evaluation of Host Immune Cellular and Extracellular Matrix Responses to Prolapse Mesh With and Without Tension in a Rat Model. <i>Female Pelvic Medicine and Reconstructive Surgery</i> , 2021, 27, e385-e391.	1.1	3

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145	Effects of 3D printed surface topography and normal force on implant expulsion. Journal of the Mechanical Behavior of Biomedical Materials, 2022, 130, 105208.	3.1	3
146	Creating a Small Anchor to Eliminate Large Knots in Mesh and Tape Suture. Journal of Medical Devices, Transactions of the ASME, 2018, 12, .	0.7	2
147	Computational and image processing methods for analysis and automation of anatomical alignment and joint spacing in reconstructive surgery. International Journal of Computer Assisted Radiology and Surgery, 2022, 17, 541-551.	2.8	2
148	Authors' reply to Letter to the Editor regarding: Impaction durability of porous PEEK and titanium-coated PEEK interbody fusion devices. Spine Journal, 2019, 19, 2042-2043.	1.3	1
149	Bioabsorbable Polymers Used in Knee Arthroscopy, Part 2. Techniques in Knee Surgery, 2006, 5, 199-204.	0.1	0
150	Development of Novel Orthopaedic Materials. Techniques in Orthopaedics, 2017, 32, 131-131.	0.2	0
151	Flaw sensitivity and tensile fatigue of a high-strength hydrogel. International Journal of Fatigue, 2022, 163, 107071.	5.7	0