

Iwona Jasiuk

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164
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175
ext. papers

5,634
ext. citations

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avg, IF

5.83
L-index

#	Paper	IF	Citations
164	Experimental trends in polymer nanocomposites – review. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005 , 393, 1-11	5.3	896
163	TEM analysis of the nanostructure of normal and osteoporotic human trabecular bone. <i>Bone</i> , 2003 , 33, 270-82	4.7	226
162	Mechanical properties of 3D printed polymeric cellular materials with triply periodic minimal surface architectures. <i>Materials and Design</i> , 2017 , 122, 255-267	8.1	152
161	Multiscale modeling of elastic properties of cortical bone. <i>Acta Mechanica</i> , 2010 , 213, 131-154	2.1	135
160	Mechanical properties of 3D printed polymeric Gyroid cellular structures: Experimental and finite element study. <i>Materials and Design</i> , 2019 , 165, 107597	8.1	123
159	Effective conductivities and elastic moduli of novel foams with triply periodic minimal surfaces. <i>Mechanics of Materials</i> , 2016 , 95, 102-115	3.3	115
158	The effect of an inhomogeneous interphase on the elastic constants of transversely isotropic composites. <i>Mechanics of Materials</i> , 1993 , 15, 53-63	3.3	86
157	Elastic Moduli of Two Dimensional Materials With Polygonal and Elliptical Holes. <i>Applied Mechanics Reviews</i> , 1994 , 47, S18-S28	8.6	85
156	The stress field of a sliding inclusion. <i>International Journal of Solids and Structures</i> , 1985 , 21, 1165-1179	3.1	78
155	Modelling of bone fracture and strength at different length scales: a review. <i>Interface Focus</i> , 2016 , 6, 20150055	3.9	70
154	A micromechanically based couple-stress model of an elastic two-phase composite. <i>International Journal of Solids and Structures</i> , 2001 , 38, 1721-1735	3.1	70
153	Apparent thermal conductivity of periodic two-dimensional composites. <i>Computational Materials Science</i> , 2002 , 25, 329-338	3.2	69
152	Scale and boundary conditions effects in elastic properties of random composites. <i>Acta Mechanica</i> , 2001 , 148, 63-78	2.1	64
151	Scale-dependent bounds on effective elastoplastic response of random composites. <i>Journal of the Mechanics and Physics of Solids</i> , 2001 , 49, 655-673	5	64
150	Micromechanical finite element predictions of a reduced coefficient of thermal expansion for 3D periodic architected interpenetrating phase composites. <i>Composite Structures</i> , 2015 , 133, 85-97	5.3	59
149	Finite element prediction of effective elastic properties of interpenetrating phase composites with architected 3D sheet reinforcements. <i>International Journal of Solids and Structures</i> , 2016 , 83, 169-182	3.1	58
148	Couple-stress moduli and characteristics length of a two-phase composite. <i>Mechanics Research Communications</i> , 1999 , 26, 387-396	2.2	58

147	Multi-scale modelling of elastic moduli of trabecular bone. <i>Journal of the Royal Society Interface</i> , 2012 , 9, 1654-73	4.1	56
146	Elastic moduli of untreated, demineralized and deproteinized cortical bone: validation of a theoretical model of bone as an interpenetrating composite material. <i>Acta Biomaterialia</i> , 2012 , 8, 1080-92	10.8	54
145	An Overview on Additive Manufacturing of Polymers. <i>Jom</i> , 2018 , 70, 275-283	2.1	52
144	Quantitative second-harmonic generation microscopy for imaging porcine cortical bone: comparison to SEM and its potential to investigate age-related changes. <i>Bone</i> , 2012 , 50, 643-50	4.7	51
143	FTIR characterization of the reactive interface of cobalt oxide nanoparticles embedded in polymeric matrices. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 2227-32	3.4	51
142	Influence of Random Geometry on Effective Properties and Damage Formation In Composite Materials. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 1994 , 116, 384-391	1.8	50
141	The sliding inclusion under shear. <i>International Journal of Solids and Structures</i> , 1987 , 23, 1373-1385	3.1	50
140	Apparent elastic and elastoplastic behavior of periodic composites. <i>International Journal of Solids and Structures</i> , 2002 , 39, 199-212	3.1	49
139	Recent advances on the measurement and calculation of the elastic moduli of cortical and trabecular bone: A review. <i>Theoretical and Applied Mechanics</i> , 2011 , 38, 209-297	0.4	49
138	Effective Elastic Constants of Particulate Composites with Inhomogeneous Interphases. <i>Journal of Composite Materials</i> , 1998 , 32, 1391-1424	2.7	48
137	Acoustic band gaps and elastic stiffness of PMMA cellular solids based on triply periodic minimal surfaces. <i>Materials and Design</i> , 2018 , 145, 20-27	8.1	47
136	A micromechanically based couple-stress model of an elastic orthotropic two-phase composite. <i>European Journal of Mechanics, A/Solids</i> , 2002 , 21, 465-481	3.7	46
135	Multiscale damage and strength of lamellar bone modeled by cohesive finite elements. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2013 , 28, 94-110	4.1	45
134	Couple-stress moduli of a trabecular bone idealized as a 3D periodic cellular network. <i>Journal of Biomechanics</i> , 2006 , 39, 2241-52	2.9	44
133	Prediction and optimization of mechanical properties of composites using convolutional neural networks. <i>Composite Structures</i> , 2019 , 227, 111264	5.3	43
132	Crack initiation and propagation in materials with randomly distributed holes. <i>Engineering Fracture Mechanics</i> , 1997 , 58, 395-420	4.2	42
131	SEM and TEM study of the hierarchical structure of C57BL/6J and C3H/HeJ mice trabecular bone. <i>Bone</i> , 2004 , 35, 11-20	4.7	42
130	Micromechanical properties and erosive wear performance of chromium carbide based cermets. <i>Wear</i> , 2009 , 267, 152-159	3.5	41

129	The Ultrastructure of Bone and Its Relevance to Mechanical Properties. <i>Frontiers in Physics</i> , 2017 , 5,	3.9	40
128	Cavities vis-a-vis rigid inclusions: Elastic moduli of materials with polygonal inclusions. <i>International Journal of Solids and Structures</i> , 1995 , 32, 407-422	3.1	40
127	Elastic moduli of two-dimensional composites with sliding inclusions: A comparison of effective medium theories. <i>International Journal of Solids and Structures</i> , 1993 , 30, 2501-2523	3.1	40
126	Elastic modeling of bone at nanostructural level. <i>Materials Science and Engineering Reports</i> , 2012 , 73, 27-49	30.9	38
125	Asymptotic Expansions for the Thermal Stresses in Bonded Semi-Infinite Bimaterial Strips. <i>Journal of Electronic Packaging, Transactions of the ASME</i> , 1991 , 113, 173-177	2	38
124	Mechanical properties of porcine femoral cortical bone measured by nanoindentation. <i>Journal of Biomechanics</i> , 2012 , 45, 1775-82	2.9	37
123	The TEM characterization of the lamellar structure of osteoporotic human trabecular bone. <i>Micron</i> , 2005 , 36, 653-64	2.3	37
122	Elastic moduli of composites with rigid sliding inclusions. <i>Journal of the Mechanics and Physics of Solids</i> , 1992 , 40, 373-391	5	37
121	Fracture of random matrix-inclusion composites: scale effects and statistics. <i>International Journal of Solids and Structures</i> , 1998 , 35, 2537-2566	3.1	35
120	Composites with functionally graded interphases: Mesocontinuum concept and effective transverse conductivity. <i>Acta Materialia</i> , 1996 , 44, 2057-2066	8.4	34
119	Effect of filler alignment on percolation in polymer nanocomposites using tunneling-percolation model. <i>Journal of Applied Physics</i> , 2016 , 120, 045105	2.5	34
118	Reference point indentation study of age-related changes in porcine femoral cortical bone. <i>Journal of Biomechanics</i> , 2013 , 46, 1689-96	2.9	33
117	Numerical modeling of long bone adaptation due to mechanical loading: correlation with experiments. <i>Annals of Biomedical Engineering</i> , 2010 , 38, 594-604	4.7	33
116	Damage patterns and constitutive response of random matrix-inclusion composites. <i>Engineering Fracture Mechanics</i> , 1997 , 58, 581-606	4.2	33
115	Employing the biology of successful fracture repair to heal critical size bone defects. <i>Current Topics in Microbiology and Immunology</i> , 2013 , 367, 113-32	3.3	31
114	Modeling of bone at a single lamella level. <i>Biomechanics and Modeling in Mechanobiology</i> , 2004 , 3, 67-74	3.8	31
113	Successive iteration method applied to composites containing sliding inclusions: effective modulus and anelasticity. <i>Mechanics of Materials</i> , 1990 , 9, 229-243	3.3	30
112	A polyurethane-based nanocomposite biocompatible bone adhesive. <i>Journal of Applied Polymer Science</i> , 2013 , 127, 4974-4982	2.9	29

111	The Sliding Circular Inclusion in an Elastic Half-Plane. <i>Journal of Applied Mechanics, Transactions ASME</i> , 1992 , 59, S57-S64	2.7	29
110	Sp2 carbon embedded in Al-6061 and Al-7075 alloys in the form of crystalline graphene nanoribbons. <i>Carbon</i> , 2016 , 107, 56-66	10.4	27
109	Tunneling-percolation behavior of polydisperse prolate and oblate ellipsoids. <i>Journal of Applied Physics</i> , 2015 , 118, 154306	2.5	27
108	Multi-scale characterization of swine femoral cortical bone. <i>Journal of Biomechanics</i> , 2011 , 44, 313-20	2.9	27
107	Planar Cosserat Elasticity of Materials With Holes and Intrusions. <i>Applied Mechanics Reviews</i> , 1995 , 48, S11-S18	8.6	27
106	The influence of interface and arrangement of inclusions on local stresses in composite materials. <i>Acta Materialia</i> , 1997 , 45, 4131-4143	8.4	25
105	Modeling of Stiffness and Strength of Bone at Nanoscale. <i>Journal of Biomechanical Engineering</i> , 2017 , 139,	2.1	23
104	The effect of ozone on polymer degradation in Polymer Core Composite Conductors. <i>Polymer Degradation and Stability</i> , 2013 , 98, 436-445	4.7	23
103	A review of impact resistant biological and bioinspired materials and structures. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 15705-15738	5.5	23
102	The effect of ozone and high temperature on polymer degradation in polymer core composite conductors. <i>Polymer Degradation and Stability</i> , 2013 , 98, 2282-2290	4.7	22
101	Induced porosity in Super Alloy 718 through the laser additive manufacturing process: Microstructure and mechanical properties. <i>Journal of Alloys and Compounds</i> , 2017 , 725, 757-764	5.7	22
100	Heat-Induced Polycondensation Reaction with Self-Generated Blowing Agent Forming Aromatic Thermosetting Copolyester Foams. <i>Macromolecules</i> , 2016 , 49, 6489-6496	5.5	20
99	Avalanche criticality during compression of porcine cortical bone of different ages. <i>Physical Review E</i> , 2016 , 93, 053001	2.4	20
98	Apparent elastic properties of random fiber networks. <i>Computational Materials Science</i> , 2013 , 79, 715-723	3.2	20
97	Cortical bone fracture analysis using XFEM - case study. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2017 , 33, e2809	2.6	19
96	Effects of freeze-thaw and micro-computed tomography irradiation on structure-property relations of porcine trabecular bone. <i>Journal of Biomechanics</i> , 2014 , 47, 1495-8	2.9	19
95	Scale and boundary conditions effects on the apparent elastic moduli of trabecular bone modeled as a periodic cellular solid. <i>Journal of Biomechanical Engineering</i> , 2009 , 131, 121008	2.1	19
94	Towards a standardized reference point indentation testing procedure. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014 , 34, 57-65	4.1	18

93	Modeling of cortical bone adaptation in a rat ulna: effect of frequency. <i>Bone</i> , 2012 , 50, 792-7	4.7	18
92	Experimental and computational study of shielding effectiveness of polycarbonate carbon nanocomposites. <i>Journal of Applied Physics</i> , 2016 , 120, 145103	2.5	18
91	Dissipation energy as a stimulus for cortical bone adaptation. <i>Journal of Mechanics of Materials and Structures</i> , 2011 , 6, 303-319	1.2	16
90	Circular Inclusion in Half-Plane: Effect of Boundary Conditions. <i>Journal of Engineering Mechanics - ASCE</i> , 1998 , 124, 293-300	2.4	16
89	Compression and buckling of microarchitected Neovius-lattice. <i>Extreme Mechanics Letters</i> , 2020 , 37, 100688	3.9	15
88	Age-related changes in the 3D hierarchical structure of rat tibia cortical bone characterized by high-resolution micro-CT. <i>Journal of Applied Physiology</i> , 2013 , 114, 923-33	3.7	15
87	A Spherical Inclusion in an Elastic Half-Space Under Shear. <i>Journal of Applied Mechanics, Transactions ASME</i> , 1997 , 64, 471-479	2.7	15
86	Novel Metal-Carbon Nanomaterials: A Review On Covetics. <i>Advanced Materials Letters</i> , 2017 , 8, 884-890	2.4	15
85	Aromatic thermosetting copolyester nanocomposite foams: High thermal and mechanical performance lightweight structural materials. <i>Polymer</i> , 2017 , 123, 311-320	3.9	14
84	Nanoindentation testing and modeling of chromium-carbide-based composites. <i>Mechanics of Composite Materials</i> , 2011 , 46, 667-678	1.1	14
83	Electroconductive composite of zirconia and hybrid graphene/alumina nanofibers. <i>Journal of the European Ceramic Society</i> , 2017 , 37, 3713-3719	6	13
82	Reversible Bonding of Aromatic Thermosetting Copolyesters for In-Space Assembly. <i>Macromolecular Materials and Engineering</i> , 2019 , 304, 1800647	3.9	13
81	Effects of environmental aging on physical properties of aromatic thermosetting copolyester matrix neat and nanocomposite foams. <i>Polymer Degradation and Stability</i> , 2018 , 147, 49-56	4.7	13
80	Thermal Stresses and Thermal Expansion Coefficients of Short Fiber Composites With Sliding Interfaces. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 1988 , 110, 96-100	1.8	12
79	Shielding effectiveness and bandgaps of interpenetrating phase composites based on the Schwarz Primitive surface. <i>Journal of Applied Physics</i> , 2018 , 124, 175102	2.5	12
78	Tunneling-percolation model of multicomponent nanocomposites. <i>Journal of Applied Physics</i> , 2018 , 123, 085104	2.5	11
77	Toward high-speed 3D nonlinear soft tissue deformation simulations using Abaqus software. <i>Journal of Robotic Surgery</i> , 2015 , 9, 299-310	2.9	11
76	Experimentally-based multiscale model of the elastic moduli of bovine trabecular bone and its constituents. <i>Materials Science and Engineering C</i> , 2015 , 54, 207-16	8.3	10

75	Deproteinization of Cortical Bone: Effects of Different Treatments. <i>Calcified Tissue International</i> , 2018 , 103, 554-566	3.9	10
74	Xenopus laevis as a novel model to study long bone critical-size defect repair by growth factor-mediated regeneration. <i>Tissue Engineering - Part A</i> , 2011 , 17, 691-701	3.9	10
73	Stresses and Fracture at the Chip/Underfill Interface in Flip-Chip Assemblies. <i>Journal of Electronic Packaging, Transactions of the ASME</i> , 2003 , 125, 44-52	2	10
72	Fracture analysis of multi-osteon cortical bone using XFEM. <i>Computational Mechanics</i> , 2018 , 62, 171-184	4	10
71	Engineering with keratin: A functional material and a source of bioinspiration. <i>IScience</i> , 2021 , 24, 1027986	1	10
70	NANOINDENTATION AND ASH CONTENT STUDY OF AGE DEPENDENT CHANGES IN PORCINE CORTICAL BONE. <i>Journal of Mechanics in Medicine and Biology</i> , 2015 , 15, 1550074	0.7	9
69	Effect of specimen geometry on tensile strength of cortical bone. <i>Journal of Biomedical Materials Research - Part A</i> , 2010 , 95, 580-7	5.4	9
68	Nanofiller-conjugated percolating conductive network modified polymerization reaction characteristics of aromatic thermosetting copolyester resin.. <i>RSC Advances</i> , 2018 , 8, 4946-4954	3.7	8
67	Nonlinear micro-CT based FE modeling of trabecular bone-Sensitivity of apparent response to tissue constitutive law and bone volume fraction. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2018 , 34, e2941	2.6	8
66	Linear elasticity of planar Delaunay networks. III: Self-consistent approximations. <i>Acta Mechanica</i> , 1995 , 110, 57-72	2.1	8
65	Modeling orthotropic elasticity, localized plasticity and fracture in trabecular bone. <i>Computational Mechanics</i> , 2016 , 58, 423-439	4	7
64	Imparting optical functionality to aromatic thermosetting copolyester by luminescent silicon nanoparticles cross-linked via in situ thermal polymerization reaction. <i>European Polymer Journal</i> , 2018 , 103, 351-361	5.2	7
63	Finite element simulation of Reference Point Indentation on bone. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017 , 65, 574-583	4.1	6
62	From Lattices and Composites to Micropolar Continua. <i>ICASE/LaRC Interdisciplinary Series in Science and Engineering</i> , 2004 , 175-212		6
61	Scale and boundary conditions effects in elasticity and damage mechanics of random composites. <i>Studies in Applied Mechanics</i> , 1998 , 46, 65-80		6
60	Spheroidal Sliding Inclusion in an Elastic Half-Space. <i>Applied Mechanics Reviews</i> , 1991 , 44, S143-S149	8.6	6
59	Modeling of Osteoprobe indentation on bone. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019 , 90, 365-373	4.1	6
58	Aromatic thermosetting copolyester bionanocomposites as reconfigurable bone substitute materials: Interfacial interactions between reinforcement particles and polymer network. <i>Scientific Reports</i> , 2018 , 8, 14869	4.9	6

57	Merging versatile polymer chemistry with multifunctional nanoparticles: an overview of crosslinkable aromatic polyester matrix nanocomposites. <i>Soft Matter</i> , 2020 , 16, 1389-1403	3.6	5
56	Mechanical Properties of Model Two-Phase Composites with Continuous Compared to Discontinuous Phases. <i>Advanced Engineering Materials</i> , 2018 , 20, 1800505	3.5	5
55	Periodic Functionalization of Graphene-Layered Alumina Nanofibers with Aromatic Thermosetting Copolyester via Epitaxial Step-Growth Polymerization. <i>Macromolecular Chemistry and Physics</i> , 2017 , 218, 1700338	2.6	5
54	Effective Elastic Moduli of Composite Materials: Reduced Parameter Dependence. <i>Applied Mechanics Reviews</i> , 1997 , 50, S39-S43	8.6	5
53	ON THE REDUCTION OF CONSTANTS IN PLANAR COSSERAT ELASTICITY WITH EIGENSTRAINS AND EIGENCURVATURES. <i>Journal of Thermal Stresses</i> , 2003 , 26, 1221-1228	2.2	5
52	The elastic stress field in a half-space containing a prolate spheroidal inhomogeneity subject to pure shear eigenstrain. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2000 , 285, 339-345	5.3	5
51	On multiple connectivity and reduction of constants for composites with body forces. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 1998 , 454, 1357-1369	2.4	5
50	Understanding the influence of carbon addition on the corrosion behavior and mechanical properties of Al alloy Bioretics. <i>Journal of Materials Science</i> , 2019 , 54, 2668-2679	4.3	5
49	Interfacial bonding between mineral platelets in bone and its effect on mechanical properties of bone. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021 , 113, 104132	4.1	5
48	Aromatic thermosetting copolyester foam core and aluminum foam face three-layer sandwich composite for impact energy absorption. <i>Materials Letters</i> , 2017 , 196, 288-291	3.3	4
47	Wide Area Reversible Adhesive for In-Space Assembly. <i>Macromolecular Materials and Engineering</i> , 2020 , 305, 2000006	3.9	4
46	Bone resorption markers and dual-energy x-ray absorptiometry in dogs with avascular necrosis, degenerative joint disease, and trauma of the coxofemoral joint. <i>Veterinary Surgery</i> , 2012 , 41, 551-8	1.7	4
45	Proximal Cadaveric Femur Preparation for Fracture Strength Testing and Quantitative CT-based Finite Element Analysis. <i>Journal of Visualized Experiments</i> , 2017 ,	1.6	4
44	Characterisation of microstructure and mechanical properties of cermets at micro- and nanoscales. <i>International Journal of Materials and Product Technology</i> , 2011 , 40, 58	1	4
43	The effect of shot particles on the fatigue of Kaowool fiber-reinforced 339 aluminum. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 1999 , 30, 195-201	2.3	4
42	Novel Metal-Matrix Composites With Integrally-Bound Nanoscale Carbon 2012 ,		4
41	Modeling of trabecular bone as a hierarchical material 2003 , 1727-1728		4
40	Topology optimization for three-dimensional elastoplastic architected materials using a path-dependent adjoint method. <i>International Journal for Numerical Methods in Engineering</i> , 2021 , 122, 1889-1910	2.4	4

39	Glass transition broadening via nanofiller-contiguous polymer network in aromatic thermosetting copolyester nanocomposites. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2018 , 56, 1595-1603	2.6	4
38	Interfacial liquid crystalline mesophase domain on carbon nanofillers in aromatic thermosetting copolyester matrix. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 46584	2.9	3
37	Method and Instrumented Fixture for Femoral Fracture Testing in a Sideways Fall-on-the-Hip Position. <i>Journal of Visualized Experiments</i> , 2017 ,	1.6	3
36	Elastic behavior of silica/poly(dimethylsiloxane) nanocomposites: nano-size effects. <i>IOP Conference Series: Materials Science and Engineering</i> , 2012 , 40, 012008	0.4	3
35	Interfacial Stress Analysis and Fracture of a Bi-Material Strip With a Heterogeneous Underfill. <i>Journal of Electronic Packaging, Transactions of the ASME</i> , 2003 , 125, 400-413	2	3
34	Mechanical and thermal stresses at shot particles during fatigue of Kaowool aluminum composites at 20°C. <i>Journal of Materials Science</i> , 2001 , 36, 1201-1212	4.3	3
33	Modeling of Trabecular Bone as a Couple Stress Continuum 2003 ,		3
32	High-Performance Computing Comparison of Implicit and Explicit Nonlinear Finite Element Simulations of Trabecular Bone. <i>Computer Methods and Programs in Biomedicine</i> , 2021 , 200, 105870	6.9	3
31	Fracture testing of polymer materials processed via fused filament fabrication: a survey of materials, methods, and design applications. <i>Progress in Additive Manufacturing</i> , 1	5	3
30	Design and repeatability analysis of desktop tool for rapid pre-cracking of notched ductile plastic fracture specimens. <i>Engineering Fracture Mechanics</i> , 2019 , 217, 106536	4.2	2
29	A Method to Estimate Cadaveric Femur Cortical Strains During Fracture Testing Using Digital Image Correlation. <i>Journal of Visualized Experiments</i> , 2017 ,	1.6	2
28	Stress invariance and exact relations in the mechanics of composite materials: Extensions of the CLM result [A review]. <i>Mechanics of Materials</i> , 2009 , 41, 394-404	3.3	2
27	Dielectric behavior of Silica/Poly(dimethylsiloxane) nanocomposites. nano size effects. <i>IOP Conference Series: Materials Science and Engineering</i> , 2012 , 40, 012011	0.4	2
26	On the reduced parameter dependence of the Mori-Tanaka theory. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2000 , 285, 130-135	5.3	2
25	Multiscale Characterization of the Ultrastructure of Normal and Osteoporotic Human Trabecular Bone 2002 ,		2
24	Thermal Stresses and Thermal Expansion Coefficients of Composites Reinforced with Coated Spherical Particles 1990 , 539-548		2
23	Comparison of different protocols for demineralization of cortical bone. <i>Scientific Reports</i> , 2021 , 11, 7012	4.9	2
22	Deproteinized young bone reveals a continuous mineral phase and its contribution to mechanical properties with age. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 15421-15432	5.5	1

21	Multiscale Modeling of Elastic Properties of Trabecular Bone. <i>IFMBE Proceedings</i> , 2010 , 837-840	0.2	1
20	Hierarchical Structure of Porosity in Cortical and Trabecular Bones. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1420, 24		1
19	Apparent elastic moduli of trabecular bone. <i>Journal of Biomechanics</i> , 2006 , 39, S468	2.9	1
18	Micromechanics of Bone Modeled as a Composite Material 2018 , 281-306		1
17	The Hemispherical Inhomogeneity Subjected to a Concentrated Force 1990 , 497-509		1
16	Multimodal characterization of the bone-implant interface using Raman spectroscopy and nanoindentation. <i>Medical Engineering and Physics</i> , 2020 , 84, 60-67	2.4	1
15	Scale and size effects on the mechanical properties of bioinspired 3D printed two-phase composites. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 14944-14960	5.5	1
14	Identification and Mapping of Manufacturability Constraints for Extrusion-Based Additive Manufacturing. <i>Journal of Manufacturing and Materials Processing</i> , 2021 , 5, 33	2.2	1
13	Modeling of bending and torsional stiffnesses of bone at sub-microscale: Effect of curved mineral lamellae. <i>Journal of Biomechanics</i> , 2021 , 123, 110531	2.9	1
12	Reversible bonding via exchange reactions following atomic oxygen and proton exposure. <i>Journal of Adhesion Science and Technology</i> , 1-18	2	1
11	Optimization of Structures Made From Composites With Elliptical Inclusions. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2018 , 85,	2.7	1
10	On Stiffness, Strength, Anisotropy, and Buckling of 30 Strut-Based Lattices with Cubic Crystal Structures. <i>Advanced Engineering Materials</i> , 2101379	3.5	0
9	Defect Chemistry of Titanium Dioxide: Evidence of the n-p Transition during Cooling. <i>Journal of Physical Chemistry C</i> , 2022 , 126, 5014-5021	3.8	0
8	Electroconductive Oxide Ceramics with Graphene-Encapsulated Fillers. <i>Ceramic Engineering and Science Proceedings</i> , 2019 , 251-258	0.1	
7	Concentrated force acting on a power law creep half-plane. <i>Journal of Mechanics of Materials and Structures</i> , 2008 , 3, 697-705	1.2	
6	Technical Note on the Preparation of Un-decalcified Trabecular Bone for Examination by TEM. <i>Microscopy Today</i> , 2004 , 12, 44-44	0.4	
5	Fatigue of Kaowool reinforced aluminum: Effect of shot particle wall thickness. <i>Journal of Materials Science</i> , 2003 , 38, 2851-2860	4.3	
4	Correlation of Multi-scale Modeling and Experimental Results for the Elastic Moduli of Cortical and Trabecular Bone. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2013 , 99-107	0.3	

- 3 Correlation of Multi-scale Modeling and Experimental Results for the Elastic Modulus of Trabecular Bone. *Conference Proceedings of the Society for Experimental Mechanics*, **2014**, 59-65 0.3
- 2 Finite Element Simulation and X-Ray Microdiffraction Study of Strain Partitioning in a Layered Nanocomposite. *Journal of Crystallography*, **2016**, 2016, 1-11
- 1 Tunneling Percolation Behavior of Graphene-Encapsulated Whiskers as Electroconductive Fillers for Ceramics. *Advanced Structured Materials*, **2019**, 131-139 0.6