Bikaramjit Basu

List of Publications by Year
in descending order

262 papers	8,922 citations	41323 49 h-index	69214 77 g-index
344 all docs	344 docs citations	344 times ranked	9833 citing authors

#	Article	IF	Citations
1	Review on ultra-high temperature boride ceramics. Progress in Materials Science, 2020, 111, 100651.	16.0	259
2	Unraveling the mechanistic effects of electric field stimulation towards directing stem cell fate and function: A tissue engineering perspective. Biomaterials, 2018, 150, 60-86.	5.7	246
3	A porous hydroxyapatite scaffold for bone tissue engineering: Physico-mechanical and biological evaluations. Ceramics International, 2012, 38, 341-349.	2.3	189
4	Is Weibull distribution the most appropriate statistical strength distribution for brittle materials?. Ceramics International, 2009, 35, 237-246.	2.3	181
5	Simultaneous Exfoliation and Functionalization of 2H-MoS₂ by Thiolated Surfactants: Applications in Enhanced Antibacterial Activity. Journal of the American Chemical Society, 2018, 140, 12634-12644.	6.6	176
6	Low temperature additive manufacturing of three dimensional scaffolds for bone-tissue engineering applications: Processing related challenges and property assessment. Materials Science and Engineering Reports, 2016, 103, 1-39.	14.8	175
7	High Antibacterial Activity of Functionalized Chemically Exfoliated MoS₂. ACS Applied Materials & Interfaces, 2016, 8, 31567-31573.	4.0	161
8	Conformal Cytocompatible Ferrite Coatings Facilitate the Realization of a Nanovoyager in Human Blood. Nano Letters, 2014, 14, 1968-1975.	4.5	146
9	Intermittent electrical stimuli for guidance of human mesenchymal stem cell lineage commitment towards neural-like cells on electroconductive substrates. Biomaterials, 2014, 35, 6219-6235.	5.7	133
10	Understanding phase stability, microstructure development and biocompatibility in calcium phosphateâ€“titania composites, synthesized from hydroxyapatite and titanium powder mix. Materials Science and Engineering C, 2009, 29, 97-107.	3.8	127
11	High-entropy alloys and metallic nanocomposites: Processing challenges, microstructure development and property enhancement. Materials Science and Engineering Reports, 2018, 131, 1-42.	14.8	126
12	Simulation of thermal and electric field evolution during spark plasma sintering. Ceramics International, 2009, 35, 699-708.	2.3	118
13	The Foreign Body Response Demystified. ACS Biomaterials Science and Engineering, 2019, 5, 19-44.	2.6	113
14	In vitro biocompatibility and antimicrobial activity of wet chemically prepared Ca10â^’xAgx(PO4)6(OH)2 (0.0â‰xâ‰0.5) hydroxyapatites. Materials Science and Engineering C, 2011, 31, 1320-1329.	3.8	111
15	Functionally graded hydroxyapatite-alumina-zirconia biocomposite: Synergy of toughness and biocompatibility. Materials Science and Engineering C, 2012, 32, 1164-1173.	3.8	108
16	Solar energy absorption mediated by surface plasma polaritons in spectrally selective dielectric-metal-dielectric coatings: A critical review. Renewable and Sustainable Energy Reviews, 2017, 79, 1050-1077.	8.2	106
17	Microstructure and compression properties of 3D powder printed Ti-6Al-4V scaffolds with designed porosity: Experimental and computational analysis. Materials Science and Engineering C, 2017, 70, 812-823.	3.8	103
18	Correlation between phase evolution, mechanical properties and instrumented indentation response of TiB2-based ceramics. Journal of the European Ceramic Society, 2009, 29, 505-516.	2.8	96

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19	Scaffolds for bone tissue engineering: role of surface patterning on osteoblast response. RSC Advances, 2013, 3, 11073.	1.7	93
20	Competent processing techniques for scaffolds in tissue engineering. Biotechnology Advances, 2017, 35, 240-250.	6.0	89
21	In vitro/In vivo assessment and mechanisms of toxicity of bioceramic materials and its wear particulates. RSC Advances, 2014, 4, 12763.	1.7	87
22	Densification, phase stability and inÂvitro biocompatibility property of hydroxyapatite-10Âwt% silver composites. Journal of Materials Science: Materials in Medicine, 2010, 21, 1273-1287.	1.7	84
23	On the toughness enhancement in hydroxyapatite-based composites. Acta Materialia, 2013, 61, 5198-5215.	3.8	82
24	Densification, Sintering Reactions, and Properties of Titanium Diboride With Titanium Disilicide as a Sintering Aid. Journal of the American Ceramic Society, 2007, 90, 3415-3423.	1.9	81
25	Pigmented Silk Nanofibrous Composite for Skeletal Muscle Tissue Engineering. Advanced Healthcare Materials, 2016, 5, 1222-1232.	3.9	81
26	Strength reliability and in vitro degradation of three-dimensional powder printed strontium-substituted magnesium phosphate scaffolds. Acta Biomaterialia, 2016, 31, 401-411.	4.1	79
27	Tribological behaviour of Ti-based alloys in simulated body fluid solution at fretting contacts. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 379, 234-239.	2.6	78
28	Interplay of Substrate Conductivity, Cellular Microenvironment, and Pulsatile Electrical Stimulation toward Osteogenesis of Human Mesenchymal Stem Cells in Vitro. ACS Applied Materials & Interfaces, 2015, 7, 23015-23028.	4.0	78
29	Substrate conductivity dependent modulation of cell proliferation and differentiation inÂvitro. Biomaterials, 2013, 34, 7073-7085.	5.7	77
30	Optimization of electrical stimulation parameters for enhanced cell proliferation on biomaterial surfaces. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2011, 98B, 18-29.	1.6	73
31	Cytotoxicity of Ultrasmall Gold Nanoparticles on Planktonic and Biofilm Encapsulated Gramâ€Positive Staphylococci. Small, 2015, 11, 3183-3193.	5.2	72
32	Nanoindentation response of novel hydroxyapatiteâ€"mullite composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 513-514, 197-201.	2.6	69
33	Surface-Functionalized Silk Fibroin Films as a Platform To Guide Neuron-like Differentiation of Human Mesenchymal Stem Cells. ACS Applied Materials & Interfaces, 2016, 8, 22849-22859.	4.0	64
34	Microstructure, mechanical properties, and in vitro biocompatibility of spark plasma sintered hydroxyapatiteâ€"aluminum oxideâ€"carbon nanotube composite. Materials Science and Engineering C, 2010, 30, 1162-1169.	3.8	62
35	HDPEâ€Al₂O₃â€HAp composites for biomedical applications: Processing and characterizations. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2009, 88B, 1-11.	1.6	61
36	Electrically driven intracellular and extracellular nanomanipulators evoke neurogenic/cardiomyogenic differentiation in human mesenchymal stem cells. Biomaterials, 2016, 77, 26-43.	5.7	60

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37	Development of WC-ZrO2Nanocomposites by Spark Plasma Sintering. Journal of the American Ceramic Society, 2004, 87, 317-319.	1.9	59
38	Microstructure, mechanical and tribological properties of microwave sintered calcia-doped zirconia for biomedical applications. Ceramics International, 2008, 34, 1509-1520.	2.3	58
39	Phase stability and microstructure development in hydroxyapatiteâ€“mullite system. Scripta Materialia, 2008, 58, 1054-1057.	2.6	58
40	Magnetic field assisted stem cell differentiation â€“ role of substrate magnetization in osteogenesis. Journal of Materials Chemistry B, 2015, 3, 3150-3168.	2.9	58
41	Hydroxyapatiteâ€titanium bulk composites for bone tissue engineering applications. Journal of Biomedical Materials Research - Part A, 2015, 103, 791-806.	2.1	58
42	Tribological properties of Ti-aluminide reinforced Al-based in situ metal matrix composite. Intermetallics, 2005, 13, 733-740.	1.8	56
43	Moderate intensity static magnetic field has bactericidal effect on <i>E. coli</i> and <i>S. epidermidis</i> on sintered hydroxyapatite. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2012, 100B, 1206-1217.	1.6	54
44	Microstructure and Properties of Spark Plasma-Sintered ZrO2â€“ZrB2 Nanoceramic Composites. Journal of the American Ceramic Society, 2006, 89, 2405-2412.	1.9	53
45	Sintering, microstructure, mechanical, and antimicrobial properties of HApâ€ZnO biocomposites. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2010, 95B, 430-440.	1.6	53
46	Development of Nanocrystalline Wearâ€Resistant Yâ€TZP Ceramics. Journal of the American Ceramic Society, 2004, 87, 1771-1774.	1.9	52
47	Cellular proliferation, cellular viability, and biocompatibility of HAâ€ZnO composites. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2012, 100B, 256-264.	1.6	52
48	Spark Plasmaâ€Sintered WCâ€“ZrO₂â€“Co Nanocomposites with High Fracture Toughness and Strength. Journal of the American Ceramic Society, 2010, 93, 1754-1763.	1.9	51
49	Cross-Linked, Biodegradable, Cytocompatible Salicylic Acid Based Polyesters for Localized, Sustained Delivery of Salicylic Acid: An In Vitro Study. Biomacromolecules, 2014, 15, 863-875.	2.6	51
50	Friction and Wear Properties of Novel HDPEâ€”HApâ€”Al₂O₃Biocomposites against Alumina Counterface. Journal of Biomaterials Applications, 2009, 23, 407-433.	1.2	50
51	Sintering, Phase Stability, and Properties of Calcium Phosphateâ€Mullite Composites. Journal of the American Ceramic Society, 2010, 93, 1639-1649.	1.9	49
52	Achieving uniform microstructure and superior mechanical properties in ultrafine grained TiB2â€“TiSi2 composites using innovative multi stage spark plasma sintering. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 528, 200-207.	2.6	48
53	Bactericidal effect of silver-reinforced carbon nanotube and hydroxyapatite composites. Journal of Biomaterials Applications, 2013, 27, 967-978.	1.2	48
54	Pulsed Electrical Stimulation and Surface Charge Induced Cell Growth on Multistage Spark Plasma Sintered Hydroxyapatiteâ€Barium Titanate Piezobiocomposite. Journal of the American Ceramic Society, 2014, 97, 481-489.	1.9	48

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55	Structural and Magnetic Phase Transformations of Hydroxyapatite-Magnetite Composites under Inert and Ambient Sintering Atmospheres. Journal of Physical Chemistry C, 2015, 119, 6539-6555.	1.5	48
56	Innovative multi-stage spark plasma sintering to obtain strong and tough ultrafine-grained ceramics. Scripta Materialia, 2010, 62, 435-438.	2.6	47
57	Vertical electric field stimulated neural cell functionality on porous amorphous carbon electrodes. Biomaterials, 2013, 34, 9252-9263.	5.7	46
58	Thermoâ€structural design of ZrB₂â€“SiCâ€based thermal protection system for hypersonic space vehicles. Journal of the American Ceramic Society, 2017, 100, 1618-1633.	1.9	46
59	(Fe/Sr) Codoped Biphasic Calcium Phosphate with Tailored Osteoblast Cell Functionality. ACS Biomaterials Science and Engineering, 2018, 4, 857-871.	2.6	45
60	3D inkjet printing of biomaterials with strength reliability and cytocompatibility: Quantitative process strategy for Ti-6Al-4V. Biomaterials, 2019, 213, 119212.	5.7	45
61	Electrochemical Behavior of TiCN?Ni-Based Cermets. Journal of the American Ceramic Society, 2007, 90, 205-210.	1.9	43
62	Characterization of hydroxyapatiteâ€perovskite (CaTiO₃) composites: Phase evaluation and cellular response. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2010, 95B, 320-329.	1.6	43
63	Spark plasma sintering of novel ZrB2â€“SiCâ€“TiSi2 composites with better mechanical properties. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 534, 111-118.	2.6	43
64	Spark plasma sintering may lead to phase instability and inferior mechanical properties: A case study with TiB2. Scripta Materialia, 2013, 69, 159-164.	2.6	43
65	An Overview of Hydrogel-Based Bioinks for 3D Bioprinting of Soft Tissues. Journal of the Indian Institute of Science, 2019, 99, 405-428.	0.9	43
66	Densification and microstructure development in spark plasma sintered WCâ€“6 wt% ZrO2 nanocomposites. Journal of Materials Research, 2007, 22, 1491-1501.	1.2	42
67	Biomaterialomics: Data science-driven pathways to develop fourth-generation biomaterials. Acta Biomaterialia, 2022, 143, 1-25.	4.1	42
68	Pressureless sintering of ZrO2â€“ZrB2 composites: Microstructure and properties. International Journal of Refractory Metals and Hard Materials, 2007, 25, 179-188.	1.7	41
69	Erosion Wear Behavior of TiCN?Ni Cermets Containing Secondary Carbides (WC/NbC/TaC). Journal of the American Ceramic Society, 2006, 89, 3827-3831.	1.9	40
70	Patterned growth and differentiation of neural cells on polymer derived carbon substrates with micro/nano structures in vitro. Carbon, 2013, 65, 140-155.	5.4	40
71	Microstructure-mechanical-tribological property correlation of multistage spark plasma sintered tetragonal ZrO2. Journal of the European Ceramic Society, 2010, 30, 3363-3375.	2.8	39
72	Development of ZrB₂–SiC–Ti by multi stage spark plasma sintering at 1600°C. Journal of the Ceramic Society of Japan, 2016, 124, 393-402.	0.5	39

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73	Long-Term Sustained Release of Salicylic Acid from Cross-Linked Biodegradable Polyester Induces a Reduced Foreign Body Response in Mice. Biomacromolecules, 2015, 16, 636-649.	2.6	38
74	Thermal and electrical properties of TiB2â€“MoSi2. International Journal of Refractory Metals and Hard Materials, 2010, 28, 174-179.	1.7	37
75	Intracellular reactive oxidative stress, cell proliferation and apoptosis of Schwann cells on carbon nanofibrous substrates. Biomaterials, 2013, 34, 4891-4901.	5.7	37
76	Doped biphasic calcium phosphate: synthesis and structure. Journal of Asian Ceramic Societies, 2019, 7, 265-283.	1.0	37
77	<i>In vivo</i> response of novel calcium phosphateâ€mullite composites: Results up to 12 weeks of implantation. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2009, 90B, 547-557.	1.6	36
78	Early osseointegration of a strontium containing glass ceramic inÂaÂrabbit model. Biomaterials, 2013, 34, 9278-9286.	5.7	36
79	Structure, tensile properties and cytotoxicity assessment of sebacic acid based biodegradable polyesters with ricinoleic acid. Journal of Materials Chemistry B, 2013, 1, 865-875.	2.9	36
80	Tribochemistry in sliding wear of TiCNâ€“Ni-based cermets. Journal of Materials Research, 2008, 23, 1214-1227.	1.2	35
81	Multifunctional Properties of Multistage Spark Plasma Sintered <scp>HA</scp>â€“<scp><scp>BaTiO</scp></scp>₃â€Based Piezobiocomposites for Bone Replacement Applications. Journal of the American Ceramic Society, 2013, 96, 3753-3759.	1.9	34
82	HDPE/UHMWPE hybrid nanocomposites with surface functionalized graphene oxide towards improved strength and cytocompatibility. Journal of the Royal Society Interface, 2019, 16, 20180273.	1.5	34
83	Load-Dependent Transition in Sliding Wear Properties of TiCN?WC?Ni Cermets. Journal of the American Ceramic Society, 2007, 90, 1534-1540.	1.9	33
84	Microstructure, mechanical, and in vitro properties of mica glass-ceramics with varying fluorine content. Journal of Materials Science: Materials in Medicine, 2009, 20, 869-882.	1.7	32
85	<i>In vitro</i> cytocompatibility assessment of amorphous carbon structures using neuroblastoma and Schwann cells. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2013, 101B, 520-531.	1.6	32
86	Neurogenesis-on-Chip: Electric field modulated transdifferentiation of human mesenchymal stem cell and mouse muscle precursor cell coculture. Biomaterials, 2020, 226, 119522.	5.7	32
87	Probing Inkâ€“Powder Interactions during 3D Binder Jet Printing Using Time-Resolved X-ray Imaging. ACS Applied Materials & Interfaces, 2020, 12, 34254-34264.	4.0	32
88	Flow cytometry analysis of human fetal osteoblast fate processes on spark plasma sintered hydroxyapatiteâ€“titanium biocomposites. Journal of Biomedical Materials Research - Part A, 2013, 101, 2925-2938.	2.1	31
89	Competing Roles of Substrate Composition, Microstructure, and Sustained Strontium Release in Directing Osteogenic Differentiation of hMSCs. ACS Applied Materials & Interfaces, 2017, 9, 19389-19408.	4.0	31
90	Shock waveâ€material interaction in ZrB₂â€“SiC based ultra high temperature ceramics for hypersonic applications. Journal of the American Ceramic Society, 2019, 102, 6925-6938.	1.9	31

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91	Synthesis and Morphological Analysis of Titanium Carbide Nanopowder. Journal of the American Ceramic Society, 2009, 92, 2877-2882.	1.9	30
92	Inhibition of grain growth during the final stage of multi-stage spark plasma sintering of oxide ceramics. Scripta Materialia, 2010, 63, 585-588.	2.6	30
93	Cryogenically cured hydroxyapatiteâ€“gelatin nanobiocomposite for bovine serum albumin protein adsorption and release. RSC Advances, 2013, 3, 14622.	1.7	30
94	Modulation of Protein Adsorption and Cell Proliferation on Polyethylene Immobilized Graphene Oxide Reinforced HDPE Bionanocomposites. ACS Applied Materials & Interfaces, 2016, 8, 11954-11968.	4.0	30
95	Synergy of substrate conductivity and intermittent electrical stimulation towards osteogenic differentiation of human mesenchymal stem cells. Bioelectrochemistry, 2017, 116, 52-64.	2.4	30
96	Tribological investigation of novel HDPE-HAp-Al2O3 hybrid biocomposites against steel under dry and simulated body fluid condition. Journal of Biomedical Materials Research - Part A, 2007, 83A, 191-208.	2.1	29
97	Absence of systemic toxicity in mouse model towards BaTiO3 nanoparticulate based eluate treatment. Journal of Materials Science: Materials in Medicine, 2015, 26, 103.	1.7	29
98	Synergistic effect of polymorphism, substrate conductivity and electric field stimulation towards enhancing muscle cell growth in vitro. RSC Advances, 2016, 6, 10837-10845.	1.7	29
99	Three-dimensional plotted hydroxyapatite scaffolds with predefined architecture: comparison of stabilization by alginate cross-linking versus sintering. Journal of Biomaterials Applications, 2016, 30, 1168-1181.	1.2	29
100	Temperature- and Angle-Dependent Emissivity and Thermal Shock Resistance of the W/WAlN/WAlON/Al₂O₃-Based Spectrally Selective Absorber. ACS Applied Energy Materials, 2019, 2, 5557-5567.	2.5	29
101	Spark Plasma Sintering of Nanocrystalline Cu and Cu-10ÂWtÂPct Pb Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2011, 42, 2072-2084.	1.1	28
102	<i>In vitro</i> bioactivity and cytocompatibility properties of spark plasma sintered HAâ€Ti composites. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2013, 101B, 223-236.	1.6	28
103	Zirconia toughened mica glass ceramics for dental restorations. Dental Materials, 2018, 34, e36-e45.	1.6	28
104	Oxidation Kinetics and Mechanisms of Hotâ€Pressed TiB₂â€“MoSi₂Composites. Journal of the American Ceramic Society, 2008, 91, 3320-3327.	1.9	27
105	In vitro cellular adhesion and antimicrobial property of SiO2â€“MgOâ€“Al2O3â€“K2Oâ€“B2O3â€“F glass ceramic. Journal of Materials Science: Materials in Medicine, 2010, 21, 1297-1309.	1.7	27
106	Microstructureâ€“Mechanical Propertiesâ€“Wear Resistance Relationship of SiAlON Ceramics. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2009, 40, 2319-2332.	1.1	26
107	Wear Mechanisms of TiB₂ and TiB₂â€“TiSi₂ at Fretting Contacts with Steel and WCâ€“6â€ƒwt% Co. International Journal of Applied Ceramic Technology, 2010, 7, 89-103.	1.1	26
108	Experimental and computational analysis of thermoâ€oxidativeâ€structural stability of ZrB₂â€“SiCâ€“Ti during arcâ€jet testing. Journal of the American Ceramic Society, 2017, 100, 4860-4873.	1.9	26

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109	Sliding Wear Properties of Self-Mated Yttria-Stabilized Tetragonal Zirconia Ceramics in Cryogenic Environment. Journal of the American Ceramic Society, 2007, 90, 2525-2534.	1.9	25
110	Spark Plasma Sintered <scp>HA</scp>â€<scp><scp>Fe</scp></scp>₃<scp><scp>O</scp></scp>₄â€Based Multifunctional Magnetic Biocomposites. Journal of the American Ceramic Society, 2013, 96, 2100-2108.	1.9	25
111	Fretting wear properties of hydroxyapatite, alumina containing high density polyethylene biocomposites against zirconia. Journal of Biomedical Materials Research - Part A, 2008, 85A, 83-98.	2.1	24
112	Synergistic effect of static magnetic field and HAâ€Fe₃O₄ magnetic composites on viability of <i>S. aureus</i> and <i>E. coli</i> bacteria. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2014, 102, 524-532.	1.6	23
113	Conceptual design of three-dimensional scaffolds of powder-based materials for bone tissue engineering applications. Rapid Prototyping Journal, 2015, 21, 716-724.	1.6	23
114	Differential viability response of prokaryotes and eukaryotes to high strength pulsed magnetic stimuli. Bioelectrochemistry, 2015, 106, 276-289.	2.4	23
115	Faster Biomineralization and Tailored Mechanical Properties of Marine-Resource-Derived Hydroxyapatite Scaffolds with Tunable Interconnected Porous Architecture. ACS Applied Bio Materials, 2019, 2, 2171-2184.	2.3	23
116	Low friction and severe wear of alumina in cryogenic environment: A first report. Journal of Materials Research, 2006, 21, 832-843.	1.2	22
117	Understanding Influence of MoSi2 Addition (5 Weight Percent) on Tribological Properties of TiB2. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2008, 39, 2998-3013.	1.1	22
118	Modulated in Vitro Biocompatibility of a Unique Cross-Linked Salicylic Acidâ€"Poly(Îµ-caprolactone)-Based Biodegradable Polymer. ACS Applied Materials & Interfaces, 2016, 8, 29721-29733.	4.0	22
119	Shifting of the absorption edge in TiB2/TiB(N)/Si3N4 solar selective coating for enhanced photothermal conversion. Solar Energy, 2018, 173, 192-200.	2.9	22
120	Understanding Friction and Wear Mechanisms of High-Purity Titanium against Steel in Liquid Nitrogen Temperature. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2009, 40, 472-480.	1.1	21
121	Fretting wear behaviour of hydroxyapatiteâ€“titanium composites in simulated body fluid, supplemented with 5 g l^{âˆ’1} bovine serum albumin. Journal Physics D: Applied Physics, 2013, 46, 404004.	1.3	21
122	<i>In vitro</i> cytotoxicity and <i>in vivo</i> osseointergration properties of compressionâ€molded HDPEâ€HAâ€Al₂O₃ hybrid biocomposites. Journal of Biomedical Materials Research - Part A, 2013, 101A, 1539-1549.	2.1	21
123	Better early osteogenesis of electroconductive hydroxyapatiteâ€“calcium titanate composites in a rabbit animal model. Journal of Biomedical Materials Research - Part A, 2014, 102, 842-851.	2.1	21
124	Microfracture and Limited Tribochemical Wear of Silicon Carbide During Highâ€Speed Sliding in Cryogenic Environment. Journal of the American Ceramic Society, 2010, 93, 1764-1773.	1.9	20
125	Thermal inkjet 3D powder printing of metals and alloys: Current status and challenges. Current Opinion in Biomedical Engineering, 2017, 2, 116-123.	1.8	20
126	3D powder printed tetracalcium phosphate scaffold with phytic acid binder: fabrication, microstructure and in situ X-Ray tomography analysis of compressive failure. Journal of Materials Science: Materials in Medicine, 2018, 29, 29.	1.7	20

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127	Periprosthetic biomechanical response towards dental implants, with functional gradation, for single/multiple dental loss. Journal of the Mechanical Behavior of Biomedical Materials, 2019, 94, 249-258.	1.5	20
128	Bacterial siderophore mimicking iron complexes as DNA targeting antimicrobials. RSC Advances, 2016, 6, 39245-39260.	1.7	19
129	On The Origin of Shear Stress Induced Myogenesis Using PMMA Based Lab-on-Chip. ACS Biomaterials Science and Engineering, 2017, 3, 1154-1171.	2.6	19
130	Finite Element Analysis to Probe the Influence of Acetabular Shell Design, Liner Material, and Subject Parameters on Biomechanical Response in Periprosthetic Bone. Journal of Biomechanical Engineering, 2018, 140, .	0.6	19
131	Computational and Microstructural Stability Analysis of Shock Wave Interaction with NbB₂-B₄C-Based Nanostructured Ceramics. ACS Applied Materials & Interfaces, 2019, 11, 47491-47500.	4.0	19
132	Tissue-specific mesenchymal stem cell-dependent osteogenesis in highly porous chitosan-based bone analogs. Stem Cells Translational Medicine, 2021, 10, 303-319.	1.6	19
133	Is Glass Infiltration Beneficial to Improve Fretting Wear Properties for Alumina?. Journal of the American Ceramic Society, 2007, 90, 523-532.	1.9	18
134	Microwaveâ€Sintered MgOâ€Doped Zirconia with Improved Mechanical and Tribological Properties. International Journal of Applied Ceramic Technology, 2008, 5, 49-62.	1.1	18
135	Cytocompatibility property evaluation of gas pressure sintered SiAlONâ€"SiC composites with L929 fibroblast cells and Saos-2 osteoblast-like cells. Materials Science and Engineering C, 2012, 32, 464-469.	3.8	18
136	Fretting wear study of Cuâ€"10wt% TiB2 and Cuâ€"10wt% TiB2â€"10wt% Pb composites. Wear, 2013, 306, 138-148.	1.5	18
137	<i>InÂvitro</i>biocompatibility of novel biphasic calcium phosphate-mullite composites. Journal of Biomaterials Applications, 2013, 27, 497-509.	1.2	18
138	Dynamic compression behavior of reactive spark plasma sintered ultrafine grained (Hf, Zr)B2â€"SiC composites. Ceramics International, 2015, 41, 8468-8474.	2.3	18
139	Biomaterials-based bioengineering strategies for bioelectronic medicine. Materials Science and Engineering Reports, 2021, 146, 100630.	14.8	18
140	On the development of two characteristically different crystal morphology in SiO2â€"MgOâ€"Al2O3â€"K2Oâ€"B2O3â€"F glass-ceramic system. Journal of Materials Science: Materials in Medicine, 2009, 20, 51-66.	1.7	17
141	Injectionâ€molded highâ€density polyethyleneâ€"hydroxyapatiteâ€"aluminum oxide hybrid composites for hardâ€tissue replacement: Mechanical, biological, and protein adsorption behavior. Journal of Applied Polymer Science, 2012, 124, 2133-2143.	1.3	17
142	Biocompatibility property of 100% strontiumâ€substituted SiO₂â€"Al₂O₃â€"P₂O₅â€"CaOâ€"CaF₂ glass ceramics over 26 weeks implantation in rabbit model: Histology and microâ€Computed Tomography analysis. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2015, 103, 1168-1179.	1.6	17
143	Vertical electric field induced bacterial growth inactivation on amorphous carbon electrodes. Carbon, 2015, 81, 193-202.	5.4	17
144	Evaluation of implant properties, safety profile and clinical efficacy of patient-specific acrylic prosthesis in cranioplasty using 3D binderjet printed cranium model: A pilot study. Journal of Clinical Neuroscience, 2021, 85, 132-142.	0.8	17

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145	Fretting Wear Properties of TiCN-Ni Cermets: Influence of Load and Secondary Carbide Addition. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2008, 39, 539-550.	1.1	16
146	Inhibitory effect of direct electric field and <scp>HA</scp>â€<scp>Z</scp>n<scp>O</scp> composites on <scp><i>S</i></scp><i>. aureus</i> biofilm formation. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2016, 104, 1064-1075.	1.6	16
147	Twinning induced enhancement of fracture toughness in ultrafine grained Hydroxyapatiteâ€“Calcium Titanate composites. Journal of the European Ceramic Society, 2016, 36, 805-815.	2.8	16
148	Dynamically crosslinked polydimethylsiloxane-based polyurethanes with contact-killing antimicrobial properties as implantable alloplasts for urological reconstruction. Acta Biomaterialia, 2021, 129, 122-137.	4.1	16
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