

# Kantesh Balani

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

211  
papers

5,562  
citations

36  
h-index

67  
g-index

219  
ext. papers

6,462  
ext. citations

4.7  
avg, IF

6.14  
L-index

#	Paper	IF	Citations
211	Spark plasma joining of HfB <sub>2</sub> -ZrB <sub>2</sub> based Ultra High Temperature Ceramics using Ni interlayer. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2022</b> , 838, 142818	5.3	0
210	Water attenuation enhances tribological damage resistance in laser peened steel. <i>Materials Letters</i> , <b>2022</b> , 308, 131175	3.3	
209	Ultra-high temperature ceramics: Aspiration to overcome challenges in thermal protection systems. <i>Ceramics International</i> , <b>2022</b> , 48, 8852-8881	5.1	2
208	Domination of phononic scattering in solid solutioning and interfaces of HfB <sub>2</sub> /ZrB <sub>2</sub> /SiC -carbon nanotube based ultra high temperature composites. <i>Scripta Materialia</i> , <b>2022</b> , 218, 114776	5.6	0
207	Effect of carbonaceous reinforcements on anticorrosive and magnetic properties of Ni-Cu based composite coatings prepared by pulsed electrodeposition. <i>Surface and Coatings Technology</i> , <b>2022</b> , 441, 128560	4.4	0
206	Radiation-induced effects on micro-scratch of ultra high molecular weight polyethylene biocomposites. <i>Journal of Materials Research and Technology</i> , <b>2021</b> , 11, 2277-2293	5.5	4
205	Synergistic addition of yttria-stabilized zirconia and h-BN/graphene/diamond restricts multi-scale length wear of Cr-based hybrid coatings. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2021</b> , 105590	4.1	2
204	Deposition of hydroxyapatite coatings by axial plasma spraying: Influence of feedstock characteristics on coating microstructure, phase content and mechanical properties. <i>Journal of the European Ceramic Society</i> , <b>2021</b> , 41, 4637-4649	6	3
203	Enhanced reversible hydrogen storage in palladium hollow spheres. <i>Particulate Science and Technology</i> , <b>2021</b> , 39, 617-623	2	0
202	Cross-sectional TEM investigation of Mg-LaNi <sub>5</sub> -Soot hybrids for hydrogen storage. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 5507-5519	6.7	3
201	Microscratching and fretting of electro-co-deposited Cr-based composite coatings with BN, graphene, and diamond reinforcements. <i>Journal of Materials Science</i> , <b>2021</b> , 56, 6148-6166	4.3	5
200	Tribological properties of SS 304 and Ti6Al4V using four reciprocating geometries. <i>Nanomaterials and Energy</i> , <b>2021</b> , 10, 79-90	1.1	2
199	Effects of reinforcements and gamma-irradiation on wear performance of ultra-high molecular weight polyethylene as acetabular cup liner in hip-joint arthroplasty: A review. <i>Journal of Applied Polymer Science</i> , <b>2021</b> , 138, 51275	2.9	3
198	Fretting wear behaviour and frictional force mapping of Al <sub>2</sub> O <sub>3</sub> based thermal barrier coatings. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2021</b> , 98, 105525	4.1	3
197	Densification mechanism of spark plasma sintered ZrB <sub>2</sub> and ZrB <sub>2</sub> -SiC ceramic composites. <i>Materials Characterization</i> , <b>2021</b> , 179, 111320	3.9	1
196	Effect of fictive temperature on tribological properties of Zr <sub>44</sub> Ti <sub>11</sub> Cu <sub>10</sub> Ni <sub>10</sub> Be <sub>25</sub> bulk metallic glasses. <i>Wear</i> , <b>2021</b> , 486-487, 204075	3.5	1
195	Oxidation kinetics of ZrB <sub>2</sub> -and HfB <sub>2</sub> -powders and their SiC reinforced composites. <i>Corrosion Science</i> , <b>2020</b> , 177, 109024	6.8	12

194	Effect of heat-treatment on microstructure, mechanical and tribological properties of Mg-Li-Al based alloy. <i>Journal of Materials Research and Technology</i> , <b>2020</b> , 9, 4749-4762	5.5	10
193	Tribomechanical insight into carbide-laden hybrid suspension-powder plasma-sprayed Tribaloy T400 composite coatings. <i>Surface and Coatings Technology</i> , <b>2020</b> , 396, 125957	4.4	3
192	Wear damage tolerance and high temperature oxidation behavior of HfB <sub>2</sub> :ZrB <sub>2</sub> SiC composites. <i>Ceramics International</i> , <b>2020</b> , 46, 21689-21698	5.1	4
191	Damage mechanics of polypropylene-based composites using progressive- and constant-load scratching. <i>Polymer Composites</i> , <b>2020</b> , 41, 3830-3841	3	2
190	Gases in nanocontainers <b>2020</b> , 499-514		1
189	Effect of Zn and Co doping on antibacterial efficacy and cytocompatibility of spark plasma sintered hydroxyapatite. <i>Journal of the American Ceramic Society</i> , <b>2020</b> , 103, 4090-4100	3.8	6
188	Synergistic role of carbon nanotube and yttria stabilised zirconia reinforcement on wear and corrosion resistance of Cr-based nano-composite coatings. <i>Surface and Coatings Technology</i> , <b>2020</b> , 385, 125381	4.4	13
187	Oxidation behaviour of coarse and fine SiC reinforced ZrB <sub>2</sub> at re-entry and atmospheric oxygen pressures. <i>Ceramics International</i> , <b>2020</b> , 46, 11056-11065	5.1	11
186	Thermodynamic and microstructural basis for the fast hydrogenation kinetics in Mg/Mg <sub>2</sub> Ni-carbon hybrids. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 11632-11640	6.7	6
185	Role of Interfaces in Damage Initiation and Tolerance of Carbon Nanotube-Reinforced HfB <sub>2</sub> -ZrB <sub>2</sub> Ceramics. <i>Jom</i> , <b>2020</b> , 72, 2207-2218	2.1	5
184	Antibacterial and magnetic response of site-specific cobalt incorporated hydroxyapatite. <i>Ceramics International</i> , <b>2020</b> , 46, 513-522	5.1	9
183	Multi-length scale wear damage mechanisms of ultra-high molecular weight polyethylene nanocomposites. <i>Polymer Testing</i> , <b>2020</b> , 81, 106210	4.5	4
182	Progress in Electrochemical and Electrophoretic Deposition of Nickel with Carbonaceous Allotropes: A Review. <i>Advanced Materials Interfaces</i> , <b>2020</b> , 7, 1901096	4.6	10
181	Tuning the magnetism and tribological behaviour of electrodeposited Ni/Cu bi-layer by selective reinforcement of carbon nanotubes. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 818, 153287	5.7	3
180	Superhydrophobic, self-cleaning carbon nanofiber CVD coating for corrosion protection of AISI 1020 steel and AZ31 magnesium alloys. <i>Surface and Coatings Technology</i> , <b>2020</b> , 404, 126421	4.4	12
179	Effect of B <sub>4</sub> C reinforcement on microstructure, residual stress, toughening and scratch resistance of (Hf, Zr)B <sub>2</sub> ceramics. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2020</b> , 796, 140022	5.3	7
178	Engineered Role of SiC Particle Size on Multi-Length-Scale Wear Damage of Spark Plasma Sintered Zirconium Diboride. <i>Advanced Engineering Materials</i> , <b>2020</b> , 22, 2000637	3.5	1
177	Adhesin Protein Interaction of Bacteria with Various Biomaterial Surfaces. <i>ACS Biomaterials Science and Engineering</i> , <b>2020</b> , 6, 6161-6172	5.5	1

176	Triggered Nanoexplosions of Pd Hollow Spheres. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2020</b> , 20, 1941-1945	1.3	2
175	Hybrid hollow structures for hydrogen storage. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 24076-24082	2.7	2
174	Effect of Thermal Aging on the Phase Stability of $1Yb_2O_3-xSc_2O_3-(9-x)ZrO_2$ ( $x = 7, 8$ mol %). <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 21982-21992	3.8	11
173	Laser peening enhances tribological resistance of electrodeposited Cr coatings reinforced with yttria stabilized zirconia and carbon nano tubes. <i>Surface and Coatings Technology</i> , <b>2019</b> , 378, 124919	4.4	4
172	Phase stability and conductivity in the pseudo ternary system of $xYb_2O_3-(12-x)Sc_2O_3-88ZrO_2$ ( $0 \leq x \leq 12$ ). <i>Solid State Ionics</i> , <b>2019</b> , 332, 93-101	3.3	14
171	Process induced alignment of carbon nanotube decreases longitudinal thermal conductivity of Al <sub>2</sub> O <sub>3</sub> based porous composites. <i>Ceramics International</i> , <b>2019</b> , 45, 18951-18964	5.1	6
170	Structure and thermoelectric properties of calcium doped Sr <sub>2</sub> TiCoO <sub>6</sub> double perovskites. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2019</b> , 244, 65-71	3.1	4
169	Mechanical, tribological and anti-corrosive properties of polyaniline/graphene coated Mg-9Li-7Al-1Sn and Mg-9Li-5Al-3Sn-1Zn alloys. <i>Journal of Materials Science and Technology</i> , <b>2019</b> , 35, 1767-1778	9.1	13
168	Site-specific antibacterial efficacy and cyto/hemo-compatibility of zinc substituted hydroxyapatite. <i>Ceramics International</i> , <b>2019</b> , 45, 12225-12233	5.1	21
167	Processing, microstructure and mechanical properties of HfB <sub>2</sub> -ZrB <sub>2</sub> -SiC composites: Effect of B <sub>4</sub> C and carbon nanotube reinforcements. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2019</b> , 81, 111-118	4.1	16
166	Single step laser surface texturing for enhancing contact angle and tribological properties. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2019</b> , 100, 1253-1267	3.2	20
165	Interfacial strengthening of polypropylene composites via bimodal porosity in Rice husk ash: Comparison with calcium carbonate reinforcement. <i>Journal of Applied Polymer Science</i> , <b>2019</b> , 136, 46989 <sup>2-9</sup>	2.9	2
164	Solid solutioning in ZrB <sub>2</sub> with HfB <sub>2</sub> : Effect on densification and oxidation resistance. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2019</b> , 84, 105041	4.1	16
163	Crystal Chemistry and Antibacterial Properties of Cupriferous Hydroxyapatite. <i>Materials</i> , <b>2019</b> , 12,	3.5	11
162	Enhanced reversible hydrogen storage in nickel nano hollow spheres. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 22032-22038	6.7	9
161	A critical analysis of the X-ray diffraction intensities in concentrated multicomponent alloys. <i>International Journal of Materials Research</i> , <b>2019</b> , 110, 393-405	0.5	4
160	Mechanical and Electrochemical Characterization of Supersolidus Sintered Austenitic Stainless Steel (316 L). <i>High Temperature Materials and Processes</i> , <b>2019</b> , 38, 792-805	0.9	7
159	Enhanced thermo-mechanical damage tolerance of functionally graded ZrB <sub>2</sub> -20SiC ceramic reinforced with carbon nanotubes. <i>Ceramics International</i> , <b>2019</b> , 45, 6198-6208	5.1	16

158	Antioxidant and antibacterial hydroxyapatite-based biocomposite for orthopedic applications. <i>Materials Science and Engineering C</i> , <b>2018</b> , 88, 13-24	8.3	44
157	An environment-friendly phosphate chemical conversion coating on novel Mg-9Li-7Al-1Sn and Mg-9Li-5Al-3Sn-1Zn alloys with remarkable corrosion protection. <i>Applied Surface Science</i> , <b>2018</b> , 443, 429-440	6.7	22
156	Microporous Hydroxyapatite Ceramic Composites as Tissue Engineering Scaffolds: An Experimental and Computational Study. <i>Advanced Engineering Materials</i> , <b>2018</b> , 20, 1701062	3.5	9
155	Densification kinetics and mechanical properties of tantalum carbide. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2018</b> , 73, 221-230	4.1	10
154	Multi-length scale tribology of hydroxyapatite reinforced with ceria and silver. <i>Wear</i> , <b>2018</b> , 404-405, 12-21	3.5	12
153	Synergistic role of carbonaceous reinforcements on multi length scale tribology of electrophoretically deposited nickel-boron nitride coatings. <i>Materials Research Bulletin</i> , <b>2018</b> , 99, 61-72	5.1	11
152	Protective trivalent Cr-based electrochemical coatings for gun barrels. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 768, 1039-1048	5.7	12
151	Enhanced Tribological and Bacterial Resistance of Carbon Nanotube with Ceria- and Silver-Incorporated Hydroxyapatite Biocoating. <i>Nanomaterials</i> , <b>2018</b> , 8,	5.4	17
150	Densification Kinetics of CeO <sub>2</sub> Reinforced 8 Mol.% Y <sub>2</sub> O <sub>3</sub> Stabilized ZrO <sub>2</sub> Ceramics. <i>Jom</i> , <b>2018</b> , 70, 1937-1945	2	2
149	The Role of Nanomechanics in Healthcare. <i>Advanced Healthcare Materials</i> , <b>2018</b> , 7, 1700793	10.1	12
148	Thermal-fluidic transport characteristics of bi-porous wicks for potential loop heat pipe systems. <i>Experimental Thermal and Fluid Science</i> , <b>2018</b> , 94, 355-367	3	20
147	Temporal stability of oxygen-ion conductivity in 1Nb <sub>2</sub> O <sub>5</sub> -10Sc <sub>2</sub> O <sub>3</sub> -89ZrO <sub>2</sub> . <i>Journal of the European Ceramic Society</i> , <b>2018</b> , 38, 1688-1694	6	2
146	High-temperature oxidation of graphite. <i>Nanomaterials and Energy</i> , <b>2018</b> , 7, 37-43	1.1	3
145	Topographical effects of laser surface texturing on various time-dependent wetting regimes in Ti6Al4V. <i>Surface and Coatings Technology</i> , <b>2018</b> , 349, 816-829	4.4	22
144	Role of Interfaces on Multi-length Scale Wear Mechanics of TaC-based Composites. <i>Advanced Engineering Materials</i> , <b>2017</b> , 19, 1600713	3.5	18
143	Superhydrophobic self-floating carbon nanofiber coating for efficient gravity-directed oil/water separation. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 2936-2946	13	73
142	Role of silver/zinc oxide in affecting de-adhesion strength of Staphylococcus aureus on polymer biocomposites. <i>Materials Science and Engineering C</i> , <b>2017</b> , 75, 1106-1114	8.3	8
141	Mechanics of ZnO morphological dependence on wear resistance of ultra high molecular weight polyethylene. <i>European Journal of Mechanics, A/Solids</i> , <b>2017</b> , 65, 149-158	3.7	8

140	Porosity distribution affecting mechanical and biological behaviour of hydroxyapatite bioceramic composites. <i>Ceramics International</i> , <b>2017</b> , 43, 10442-10449	5.1	20
139	Carbon nanotubes stabilize high temperature phase and toughen Al <sub>2</sub> O <sub>3</sub> -based thermal barrier coatings. <i>Composites Part B: Engineering</i> , <b>2017</b> , 124, 76-87	10	26
138	Poisson effect driven anomalous lattice expansion in metal nanoshells. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 131603	3.4	5
137	In vitro degradation and biomineralization ability of hydroxyapatite coated Mg-9Li-7Al-1Sn and Mg-9Li-5Al-3Sn-1Zn alloys. <i>Surface and Coatings Technology</i> , <b>2017</b> , 325, 65-74	4.4	15
136	Synergistic effect of carbonaceous reinforcements on microstructural, electrochemical, magnetic and tribological properties of electrophoretically deposited nickel. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 711, 424-433	5.7	10
135	Dual-Layer Oxidation-Protective Plasma-Sprayed SiC-ZrB <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> -Carbon Nanotube Coating on Graphite. <i>Journal of Thermal Spray Technology</i> , <b>2017</b> , 26, 417-431	2.5	15
134	Interfacial mechanics of carbonaceous reinforcements in electrophoretically deposited nickel coatings. <i>Surface and Coatings Technology</i> , <b>2017</b> , 310, 79-86	4.4	8
133	Effect of far-field stresses and residual stresses incorporation in predicting fracture toughness of carbon nanotube reinforced yttria stabilized zirconia. <i>Journal of Applied Physics</i> , <b>2017</b> , 122, 145104	2.5	7
132	Catalytic effects of CeO <sub>2</sub> and carbon nanotube addition in plasma-sprayed Al <sub>2</sub> O <sub>3</sub> . <i>Nanomaterials and Energy</i> , <b>2017</b> , 6, 29-35	1.1	
131	Multi-mode hydrogen storage in nanocontainers. <i>International Journal of Hydrogen Energy</i> , <b>2017</b> , 42, 24256-24262	6.7	24
130	Multi-functionality of carbon nanotubes reinforced 3 mol% yttria stabilized zirconia structural biocomposites. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2017</b> , 704, 329-343	5.3	18
129	Establishing microstructure-mechanical property correlation in ZrB <sub>2</sub> -based ultra-high temperature ceramic composites. <i>Ceramics International</i> , <b>2017</b> , 43, 13483-13492	5.1	14
128	Structural Characteristics and Electrical Conductivity of Spark Plasma Sintered Ytterbia Co-doped Scandia Stabilized Zirconia. <i>Journal of the American Ceramic Society</i> , <b>2017</b> , 100, 204-214	3.8	17
127	Multi-Length Scale Tribology of Electrophoretically Deposited Nickel-Diamond Coatings. <i>Jom</i> , <b>2017</b> , 69, 227-235	2.1	8
126	Adhesion force of staphylococcus aureus on various biomaterial surfaces. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2017</b> , 65, 872-880	4.1	43
125	Effect of carbon nanotube on processing, microstructural, mechanical and ablation behavior of ZrB <sub>2</sub> -20SiC based ultra-high temperature ceramic composites. <i>Carbon</i> , <b>2017</b> , 111, 269-282	10.4	77
124	Phase and Microstructural Correlation of Spark Plasma Sintered HfB <sub>2</sub> -ZrB <sub>2</sub> Based Ultra-High Temperature Ceramic Composites. <i>Coatings</i> , <b>2017</b> , 7, 110	2.9	30
123	Interfacial Effect of the Oxygen-Ion Distribution on the Conduction Mechanism in Strontium-Added Ce <sub>0.8</sub> Sm <sub>0.2</sub> O <sub>2</sub> /Na <sub>2</sub> CO <sub>3</sub> Nanocomposite. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 25068-25077	3.8	15



122	Hydrophobicity and tribology of large-area textured copper with nanogrown copper oxide. <i>Surface Innovations</i> , <b>2016</b> , 4, 205-213	1.9	2
121	Effect of carbonaceous reinforcements on the mechanical and tribological properties of friction stir processed Al6061 alloy. <i>Materials and Design</i> , <b>2016</b> , 98, 155-166	8.1	78
120	Cellular response of Escherichia coli to Mg-2Zn-2Gd alloy with different grain structure: mechanism of disruption of colonisation. <i>Materials Technology</i> , <b>2016</b> , 31, 836-844	2.1	25
119	Synergistic reinforcement of carbon nanotubes and silicon carbide for toughening tantalum carbide based ultrahigh temperature ceramic. <i>Journal of Materials Research</i> , <b>2016</b> , 31, 682-692	2.5	35
118	Oxidation studies on TaC based ultra-high temperature ceramic composites under plasma arc jet exposure. <i>Corrosion Science</i> , <b>2016</b> , 109, 50-61	6.8	49
117	Effect of sintering on mechanical properties of ceria reinforced yttria stabilized zirconia. <i>Ceramics International</i> , <b>2016</b> , 42, 11393-11403	5.1	17
116	Effect of ZnO morphology on affecting bactericidal property of ultra high molecular weight polyethylene biocomposite. <i>Materials Science and Engineering C</i> , <b>2016</b> , 62, 843-51	8.3	30
115	Carbon Nanotube Functionalization Decreases Osteogenic Differentiation in Aluminum Oxide Reinforced Ultrahigh Molecular Weight Polyethylene. <i>ACS Biomaterials Science and Engineering</i> , <b>2016</b> , 2, 1242-1256	5.5	17
114	Nanomechanical Characterization and Protein Adsorption of Cold-Rolled Zirconium Alloy. <i>Jom</i> , <b>2015</b> , 67, 726-732	2.1	11
113	Abridgment of nano and micro length scale mechanical properties of novel Mg9Li7Al1Sn and Mg9Li5Al3Sn1Zn alloys using object oriented finite element modeling. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 634, 24-31	5.7	5
112	Non-monotonic lattice parameter variation in ball-milled ceria. <i>Journal of Materials Science</i> , <b>2015</b> , 50, 6349-6358	4.3	7
111	Processing, Characterization and Fretting Wear of Zinc Oxide and Silver Nanoparticles Reinforced Ultra High Molecular Weight Polyethylene Biopolymer Nanocomposite. <i>Jom</i> , <b>2015</b> , 67, 688-701	2.1	28
110	Corrosion Behavior of Novel Mg-9Li-7Al-1Sn and Mg-9Li-5Al-3Sn-1Zn Alloys in NaCl Aqueous Solution. <i>Journal of Materials Engineering and Performance</i> , <b>2015</b> , 24, 4060-4070	1.6	14
109	Hydrogen storage in Mg/Mg2Ni/carbon hybrids. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 645, S397-S399	5.7	11
108	Tribological performance of laser peened Ti-6Al-4V. <i>Wear</i> , <b>2015</b> , 322-323, 203-217	3.5	54
107	Dispersion fraction enhances cellular growth of carbon nanotube and aluminum oxide reinforced ultrahigh molecular weight polyethylene biocomposites. <i>Materials Science and Engineering C</i> , <b>2015</b> , 46, 504-13	8.3	19
106	Restriction of Phase Transformation in Carbon Nanotube-Reinforced Yttria-Stabilized Zirconia. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2015</b> , 46, 2965-2974	2.3	13
105	Enhanced hydrogen storage in accumulative roll bonded Mg-based hybrid. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 11498-11505	6.7	22

104	Progress in material selection for solid oxide fuel cell technology: A review. <i>Progress in Materials Science</i> , <b>2015</b> , 72, 141-337	42.2	847
103	Nanosafety, Nanosocietal, and Nanoethical Issues <b>2015</b> , 318-328		
102	Applications of Biomaterials <b>2015</b> , 284-317		
101	Processing and Nanomechanical Properties of Hydroxyapatite-Nanotube Biocomposite <b>2015</b> , 260-283		
100	Surface Engineering and Modification for Biomedical Applications <b>2015</b> , 201-238		3
99	Superhydrophobic Surfaces <b>2015</b> , 170-200		2
98	Multi-Length Scale Hierarchy in Natural Materials <b>2015</b> , 146-169		1
97	Fundamentals of Surface Modification <b>2015</b> , 126-145		
96	Tissue Interaction with Biomaterials <b>2015</b> , 65-105		1
95	Introduction to Biomaterials <b>2015</b> , 1-64		1
94	Domination of volumetric toughening by silver nanoparticles over interfacial strengthening of carbon nanotubes in bactericidal hydroxyapatite biocomposite. <i>Materials Science and Engineering C</i> , <b>2014</b> , 34, 455-67	8.3	24
93	Processing and Nano-mechanical Characterization of Mg-Li-Al based Alloys <b>2014</b> , 5, 585-591		5
92	Fretting wear of Mg-Li-Al based alloys. <i>Wear</i> , <b>2014</b> , 318, 177-187	3.5	42
91	Synergistic effect of static magnetic field and HA-Fe <sub>3</sub> O <sub>4</sub> magnetic composites on viability of S. aureus and E. coli bacteria. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2014</b> , 102, 524-32	3.5	20
90	Effect of Alumina Dispersion on Microstructural and Nanomechanical Properties of Pulse Electrodeposited Nickel-Alumina Composite Coatings. <i>Journal of Materials Science and Technology</i> , <b>2014</b> , 30, 808-813	9.1	10
89	Mechanics of ZnO micro-rod and ZnO nanoparticle reinforcement in ultra-high molecular weight polyethylene biocomposite. <i>Journal Physics D: Applied Physics</i> , <b>2014</b> , 47, 345301	3	15
88	Crack Propagation Resistance of Al <sub>2</sub> O <sub>3</sub> Reinforced Pulsed Laser-Deposited Hydroxyapatite Coating on 316 Stainless Steel. <i>Jom</i> , <b>2014</b> , 66, 2095-2107	2.1	13
87	<b>2014</b> ,		22



86	Electrophoretic deposition of nanocrystalline hydroxyapatite on Ti6Al4V/TiO2 substrate <b>2013</b> , 10, 263-275	14
85	Compression Molded Ultra High Molecular Weight Polyethylene-Hydroxyapatite-Aluminum Oxide-Carbon Nanotube Hybrid Composites for Hard Tissue Replacement. <i>Journal of Materials Science and Technology</i> , <b>2013</b> , 29, 514-522	9.1 43
84	Serrated yielding during nanoindentation of thermomechanically processed novel Mg <sub>9</sub> Li <sub>7</sub> Al <sub>10</sub> Sn and Mg <sub>9</sub> Li <sub>8</sub> Al <sub>8</sub> Sn <sub>10</sub> Zn alloys. <i>Journal Physics D: Applied Physics</i> , <b>2013</b> , 46, 145304	3 14
83	Multifunctional Properties of Multistage Spark Plasma Sintered HA/BaTiO <sub>3</sub> -Based Piezobiocomposites for Bone Replacement Applications. <i>Journal of the American Ceramic Society</i> , <b>2013</b> , 96, 3753-3759	3.8 28
82	Spark Plasma Sintered HA-Fe <sub>3</sub> O <sub>4</sub> -Based Multifunctional Magnetic Biocomposites. <i>Journal of the American Ceramic Society</i> , <b>2013</b> , 96, 2100-2108	3.8 24
81	Nanomechanical Properties and Thermal Conductivity Estimation of Plasma-Sprayed, Solid-Oxide Fuel Cell Components: Ceria-Doped, Yttria-Stabilized Zirconia Electrolyte. <i>Jom</i> , <b>2013</b> , 65, 749-762	2.1 11
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