

Khiam Aik Khor

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205
papers

11,744
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98
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210
ext. papers

12,618
ext. citations

6.8
avg. IF

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L-index

#	Paper	IF	Citations
205	A complete polarization model of a solid oxide fuel cell and its sensitivity to the change of cell component thickness. <i>Journal of Power Sources</i> , 2001 , 93, 130-140	8.9	654
204	Tensile properties, tension-tension fatigue and biological response of polyetheretherketone-hydroxyapatite composites for load-bearing orthopedic implants. <i>Biomaterials</i> , 2003 , 24, 2245-50	15.6	297
203	Performance evaluation of anode-supported solid oxide fuel cells with thin film YSZ electrolyte. <i>International Journal of Hydrogen Energy</i> , 2004 , 29, 1025-1033	6.7	232
202	Addressing processing problems associated with plasma spraying of hydroxyapatite coatings. <i>Biomaterials</i> , 1996 , 17, 537-44	15.6	199
201	Low-temperature SOFC with thin film GDC electrolyte prepared in situ by solid-state reaction. <i>Solid State Ionics</i> , 2004 , 170, 9-15	3.3	193
200	In vitro studies of plasma-sprayed hydroxyapatite/Ti-6Al-4V composite coatings in simulated body fluid (SBF). <i>Biomaterials</i> , 2003 , 24, 1603-11	15.6	186
199	Temperature driven morphological changes of chemically precipitated hydroxyapatite nanoparticles. <i>Langmuir</i> , 2004 , 20, 5196-200	4	182
198	Spark plasma sintering of hydroxyapatite powders. <i>Biomaterials</i> , 2002 , 23, 37-43	15.6	177
197	Effects of residual stress on the performance of plasma sprayed functionally graded ZrO ₂ /NiCoCrAlY coatings. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2000 , 277, 64-76	5.3	175
196	High-performance low-temperature solid oxide fuel cell with novel BSCF cathode. <i>Journal of Power Sources</i> , 2006 , 161, 123-128	8.9	168
195	FeB/FeB phase transformation during SPS pack-boriding: Boride layer growth kinetics. <i>Acta Materialia</i> , 2005 , 53, 2361-2368	8.4	167
194	Influence of microstructure on the ionic conductivity of yttria-stabilized zirconia electrolyte. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2002 , 335, 246-252	5.3	163
193	Bone-like apatite layer formation on hydroxyapatite prepared by spark plasma sintering (SPS). <i>Biomaterials</i> , 2004 , 25, 4127-34	15.6	161
192	Thermal properties of plasma-sprayed functionally graded thermal barrier coatings. <i>Thin Solid Films</i> , 2000 , 372, 104-113	2.2	156
191	Titanium dioxide reinforced hydroxyapatite coatings deposited by high velocity oxy-fuel (HVOF) spray. <i>Biomaterials</i> , 2002 , 23, 85-91	15.6	153
190	A novel amperometric biosensor based on ZnO:Co nanoclusters for biosensing glucose. <i>Biosensors and Bioelectronics</i> , 2007 , 23, 135-9	11.8	146
189	Simulation of a composite cathode in solid oxide fuel cells. <i>Electrochimica Acta</i> , 2004 , 49, 1851-1861	6.7	143

188	Mechanical properties of injection molded hydroxyapatite-polyetheretherketone biocomposites. <i>Composites Science and Technology</i> , 2003 , 63, 421-425	8.6	136
187	Transparent and flexible glucose biosensor via layer-by-layer assembly of multi-wall carbon nanotubes and glucose oxidase. <i>Electrochemistry Communications</i> , 2007 , 9, 1269-1275	5.1	134
186	An Air-Stable Densely Packed PhosphoreneGraphene Composite Toward Advanced Lithium Storage Properties. <i>Advanced Energy Materials</i> , 2016 , 6, 1600453	21.8	131
185	Microstructure and mechanical properties of spark plasma sintered zirconia-hydroxyapatite nano-composite powders. <i>Acta Materialia</i> , 2005 , 53, 2327-2335	8.4	130
184	Interface driven energy filtering of thermoelectric power in spark plasma sintered Bi(2)Te(2.7)Se(0.3) nanoplatelet composites. <i>Nano Letters</i> , 2012 , 12, 4305-10	11.5	127
183	Thermal conductivity and dielectric constant of spark plasma sintered aluminum nitride. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003 , 347, 300-305	5.3	123
182	An in vitro investigation of plasma sprayed hydroxyapatite (HA) coatings produced with flame-spheroidized feedstock. <i>Biomaterials</i> , 2002 , 23, 775-85	15.6	119
181	(La _{0.75} Sr _{0.25})(Cr _{0.5} Mn _{0.5})O ₃ /YSZ composite anodes for methane oxidation reaction in solid oxide fuel cells. <i>Solid State Ionics</i> , 2006 , 177, 149-157	3.3	117
180	Multifunctional 0D2D Ni2P NanocrystalsBlack Phosphorus Heterostructure. <i>Advanced Energy Materials</i> , 2017 , 7, 1601285	21.8	114
179	Plasma-sprayed hydroxyapatite (HA) coatings with flame-spheroidized feedstock: microstructure and mechanical properties. <i>Biomaterials</i> , 2000 , 21, 1223-34	15.6	114
178	Surface characteristics and dissolution behavior of plasma-sprayed hydroxyapatite coating. <i>Journal of Biomedical Materials Research Part B</i> , 2002 , 62, 228-36		113
177	Plasma spraying of functionally graded hydroxyapatite/Ti6Al4V coatings. <i>Surface and Coatings Technology</i> , 2003 , 168, 195-201	4.4	102
176	Laminated and functionally graded hydroxyapatite/yttria stabilized tetragonal zirconia composites fabricated by spark plasma sintering. <i>Biomaterials</i> , 2003 , 24, 667-75	15.6	100
175	Effect of spark plasma sintering on the microstructure and in vitro behavior of plasma sprayed HA coatings. <i>Biomaterials</i> , 2003 , 24, 2695-705	15.6	99
174	Development of (La,Sr)MnO ₃ -Based Cathodes for Intermediate Temperature Solid Oxide Fuel Cells. <i>Electrochemical and Solid-State Letters</i> , 2003 , 6, A67		96
173	Microstructure and mechanical properties of plasma sprayed HA/YSZ/Ti-6Al-4V composite coatings. <i>Biomaterials</i> , 2004 , 25, 4009-17	15.6	95
172	Protein expression profiles in osteoblasts in response to differentially shaped hydroxyapatite nanoparticles. <i>Biomaterials</i> , 2009 , 30, 5385-91	15.6	94
171	Activity of plasma sprayed yttria stabilized zirconia reinforced hydroxyapatite/Ti-6Al-4V composite coatings in simulated body fluid. <i>Biomaterials</i> , 2004 , 25, 3177-85	15.6	92

170	Mixing and characterization of feedstock for powder injection molding. <i>Materials Letters</i> , 2000 , 46, 109-114	3.1	91
169	Identification of O ₂ reduction processes at yttria stabilized zirconia/doped lanthanum manganite interface. <i>Journal of Power Sources</i> , 2003 , 123, 17-25	8.9	89
168	Production of metal matrix composite part by powder injection molding. <i>Journal of Materials Processing Technology</i> , 2001 , 108, 398-407	5.3	89
167	Plasma sprayed functionally graded thermal barrier coatings. <i>Materials Letters</i> , 1999 , 38, 437-444	3.3	88
166	Effects of incorporation of HA/ZrO ₂ into glass ionomer cement (GIC). <i>Biomaterials</i> , 2005 , 26, 713-20	15.6	86
165	Chemical analysis of silica doped hydroxyapatite biomaterials consolidated by a spark plasma sintering method. <i>Journal of Inorganic Biochemistry</i> , 2007 , 101, 187-95	4.2	85
164	Preparation and characterization of a novel hydroxyapatite/carbon nanotubes composite and its interaction with osteoblast-like cells. <i>Materials Science and Engineering C</i> , 2009 , 29, 44-49	8.3	84
163	3D superhydrophobic reduced graphene oxide for activated NO ₂ sensing with enhanced immunity to humidity. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 478-488	13	84
162	Micro-powder injection molding. <i>Journal of Materials Processing Technology</i> , 2002 , 127, 165-168	5.3	83
161	Impact formation and microstructure characterization of thermal sprayed hydroxyapatite/titania composite coatings. <i>Biomaterials</i> , 2003 , 24, 949-57	15.6	83
160	Anode-supported solid oxide fuel cell with yttria-stabilized zirconia/gadolinia-doped ceria bilayer electrolyte prepared by wet ceramic co-sintering process. <i>Journal of Power Sources</i> , 2006 , 162, 1036-1042	8.9	80
159	HVOF spraying of nanostructured hydroxyapatite for biomedical applications. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005 , 396, 181-187	5.3	80
158	Preparation and characterization of nano-sized hydroxyapatite powders produced in a radio frequency (rf) thermal plasma. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 374, 101-108	5.3	79
157	Densification of plasma sprayed YSZ electrolytes by spark plasma sintering (SPS). <i>Journal of the European Ceramic Society</i> , 2003 , 23, 1855-1863	6	79
156	Binder system for micropowder injection molding. <i>Materials Letters</i> , 2001 , 48, 31-38	3.3	79
155	Experimental studies on a new bioactive material: HA/ionomer cements. <i>Biomaterials</i> , 2002 , 23, 955-62	15.6	77
154	Effect of characteristics of Y ₂ O ₃ /ZrO ₂ powders on fabrication of anode-supported solid oxide fuel cells. <i>Journal of Power Sources</i> , 2003 , 117, 26-34	8.9	74
153	Sintering study of 316L stainless steel metal injection molding parts using Taguchi method: final density. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001 , 311, 74-82	5.3	73

152	Ti and Ti-6Al-4V Coatings by Cold Spraying and Microstructure Modification by Heat Treatment. <i>Advanced Engineering Materials</i> , 2007 , 9, 418-423	3.5	72
151	Effect of particulate morphology on the tensile behaviour of polymer/hydroxyapatite composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003 , 345, 47-54	5.3	71
150	Tensile properties and microstructural analysis of spheroidized hydroxyapatite/poly (etheretherketone) biocomposites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003 , 345, 55-63	5.3	71
149	Electrochemical behavior of La(Sr)MnO ₃ electrode under cathodic and anodic polarization. <i>Solid State Ionics</i> , 2004 , 167, 379-387	3.3	69
148	Controlled growth of bismuth antimony telluride Bi ₂ Sb ₂ Te ₃ nanoplatelets and their bulk thermoelectric nanocomposites. <i>Nano Energy</i> , 2015 , 15, 688-696	17.1	67
147	Tension-tension fatigue behavior of hydroxyapatite reinforced polyetheretherketone composites. <i>International Journal of Fatigue</i> , 2004 , 26, 49-57	5	66
146	Characterisation of a duplex TiO ₂ /CaP coating on Ti6Al4V for hard tissue replacement. <i>Biomaterials</i> , 2005 , 26, 1087-95	15.6	66
145	Hydroxyapatite/titania nanocomposites derived by combining high-energy ball milling with spark plasma sintering processes. <i>Journal of the European Ceramic Society</i> , 2008 , 28, 3083-3090	6	65
144	Raman spectroscopy determination of phases within thermal sprayed hydroxyapatite splats and subsequent in vitro dissolution examination. <i>Acta Materialia</i> , 2004 , 52, 445-453	8.4	65
143	Antibacterial Property of Cold-Sprayed HA-Ag/PEEK Coating. <i>Journal of Thermal Spray Technology</i> , 2009 , 18, 10-15	2.5	64
142	Properties of heat-treated calcium phosphate coatings deposited by high-velocity oxy-fuel (HVOF) spray. <i>Biomaterials</i> , 2002 , 23, 2105-12	15.6	64
141	Influence of plasma and cold spray deposited Ti Layers on high-cycle fatigue properties of Ti6Al4V substrates. <i>Surface and Coatings Technology</i> , 2013 , 217, 23-33	4.4	63
140	Young's modulus and fracture toughness determination of high velocity oxy-fuel-sprayed bioceramic coatings. <i>Surface and Coatings Technology</i> , 2002 , 155, 21-32	4.4	63
139	Spark-plasma-sintering (SPS) of nanostructured titanium carbonitride powders. <i>Journal of the European Ceramic Society</i> , 2005 , 25, 1919-1927	6	63
138	TEM and STEM analysis on heat-treated and in vitro plasma-sprayed hydroxyapatite/Ti-6Al-4V composite coatings. <i>Biomaterials</i> , 2003 , 24, 97-105	15.6	62
137	Mechanical behavior of plasma sprayed functionally graded YSZ/NiCoCrAlY composite coatings. <i>Surface and Coatings Technology</i> , 2001 , 139, 200-206	4.4	62
136	Influence of spraying conditions on thermal and velocity properties of plasma sprayed hydroxyapatite. <i>Materials Science and Engineering C</i> , 2007 , 27, 340-344	8.3	61
135	Spark-plasma-sintering (SPS) of nanostructured and submicron titanium oxide powders. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 381, 16-19	5.3	56

134	Fretting wear behaviors of thermal sprayed hydroxyapatite (HA) coating under unlubricated conditions. <i>Wear</i> , 1998 , 217, 132-139	3.5	54
133	Characterization of powder injection molding feedstock. <i>Materials Characterization</i> , 2002 , 49, 313-320	3.9	54
132	Preparation yttria-stabilized zirconia electrolyte by spark-plasma sintering. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003 , 341, 43-48	5.3	54
131	Formation of hard tungsten boride layer by spark plasma sintering boriding. <i>Thin Solid Films</i> , 2005 , 478, 232-237	2.2	54
130	Microstructure formation in plasma-sprayed functionally graded NiCoCrAlY/yttria-stabilized zirconia coatings. <i>Surface and Coatings Technology</i> , 1999 , 114, 181-186	4.4	54
129	Reliability and accuracy of measured overpotential in a three-electrode fuel cell system. <i>Journal of Applied Electrochemistry</i> , 2001 , 31, 1163-1170	2.6	53
128	Significance of melt-fraction in HVOF sprayed hydroxyapatite particles, splats and coatings. <i>Biomaterials</i> , 2004 , 25, 1177-86	15.6	51
127	Microstructures and mechanical properties of powder injection molded Ti-6Al-4V/HA powder. <i>Biomaterials</i> , 2002 , 23, 2927-38	15.6	50
126	Enhanced thermoelectric performance of solution-derived bismuth telluride based nanocomposites via liquid-phase Sintering. <i>Nano Energy</i> , 2016 , 30, 630-638	17.1	49
125	Chitosan-mediated crystallization and assembly of hydroxyapatite nanoparticles into hybrid nanostructured films. <i>Journal of the Royal Society Interface</i> , 2008 , 5, 427-39	4.1	49
124	Development of LSM/YSZ composite cathode for anode-supported solid oxide fuel cells. <i>Journal of Applied Electrochemistry</i> , 2004 , 34, 409-415	2.6	49
123	Apparent solubility of hydroxyapatite in aqueous medium and its influence on the morphology of nanocrystallites with precipitation temperature. <i>Langmuir</i> , 2006 , 22, 11002-8	4	48
122	Effect of solid carbide particle size on deposition behaviour, microstructure and wear performance of HVOF cermet coatings. <i>Materials Science and Technology</i> , 2004 , 20, 1087-1096	1.5	48
121	Adhesive and bending failure of thermal sprayed hydroxyapatite coatings: Effect of nanostructures at interface and crack propagation phenomenon during bending. <i>Engineering Fracture Mechanics</i> , 2007 , 74, 1894-1903	4.2	47
120	RF plasma processing of ultra-fine hydroxyapatite powders. <i>Journal of Materials Processing Technology</i> , 2001 , 113, 456-462	5.3	47
119	Yttria stabilized zirconia reinforced hydroxyapatite coatings. <i>Surface and Coatings Technology</i> , 2000 , 127, 66-75	4.4	47
118	Thermal sprayed hydroxyapatite splats: nanostructures, pore formation mechanisms and TEM characterization. <i>Biomaterials</i> , 2004 , 25, 3463-71	15.6	46
117	Evaluation of adhesion strength and toughness of fluoridated hydroxyapatite coatings. <i>Thin Solid Films</i> , 2008 , 516, 5162-5167	2.2	45

116	High-performance (La,Sr)(Cr,Mn)O ₃ /(Gd,Ce)O ₂ composite anode for direct oxidation of methane. <i>Journal of Power Sources</i> , 2007 , 165, 34-40	8.9	44
115	Osteoblastic cell response on magnesium-incorporated apatite coatings. <i>Applied Surface Science</i> , 2008 , 255, 304-307	6.7	44
114	Boriding of mild steel using the spark plasma sintering (SPS) technique. <i>Surface and Coatings Technology</i> , 2002 , 157, 226-230	4.4	43
113	Microstructure evolution during sintering of injection molded M2 high speed steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2000 , 293, 46-55	5.3	42
112	Microstructure modifications and phase transformation in plasma-sprayed WC/Co coatings following post-spray spark plasma sintering. <i>Surface and Coatings Technology</i> , 2005 , 194, 96-102	4.4	41
111	A simple bilayer electrolyte model for solid oxide fuel cells. <i>Solid State Ionics</i> , 2003 , 158, 29-43	3.3	40
110	Spark plasma sintering of Sm ₂ O ₃ -doped aluminum nitride. <i>Journal of the European Ceramic Society</i> , 2005 , 25, 1057-1065	6	40
109	Sintering of injection molded M2 high-speed steel. <i>Materials Letters</i> , 2000 , 45, 32-38	3.3	40
108	Microstructure-property modifications in plasma sprayed 20 wt.% yttria stabilized zirconia electrolyte by spark plasma sintering (SPS) technique. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 366, 120-126	5.3	39
107	Radio frequency (rf) plasma spheroidized HA powders: powder characterization and spark plasma sintering behavior. <i>Biomaterials</i> , 2005 , 26, 2197-207	15.6	39
106	Non-destructive evaluation of plasma sprayed functionally graded thermal barrier coatings. <i>Surface and Coatings Technology</i> , 2000 , 130, 233-239	4.4	39
105	Pulsed laser treatment of plasma-sprayed hydroxyapatite coatings. <i>Biomaterials</i> , 1996 , 17, 1901-4	15.6	39
104	Role of in-flight temperature and velocity of powder particles on plasma sprayed hydroxyapatite coating characteristics. <i>Surface and Coatings Technology</i> , 2012 , 206, 2181-2191	4.4	38
103	Texture and structure evolution of tantalum powder samples during spark-plasma-sintering (SPS) and conventional hot-pressing. <i>International Journal of Refractory Metals and Hard Materials</i> , 2007 , 25, 280-285	4.1	38
102	High-pressure plasma spraying of hydroxyapatite powders. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2002 , 325, 9-18	5.3	38
101	Mechanical, tribological and biological properties of novel 45S5 Bioglass composites reinforced with in situ reduced graphene oxide. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017 , 65, 77-89	4.1	37
100	Minority Carrier Blocking to Enhance the Thermoelectric Performance of Solution-Processed BiSbTe Nanocomposites via a Liquid-Phase Sintering Process. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 12501-12510	9.5	36
99	Characterization of hydroxyapatite/nano-zirconia composite coatings deposited by high velocity oxy-fuel (HVOF) spray process. <i>Surface and Coatings Technology</i> , 2004 , 182, 227-236	4.4	36

98	Bond strength determination of hydroxyapatite coatings on Ti-6Al-4V substrates using the Laser Shock Adhesion Test (LASAT). <i>Journal of Biomedical Materials Research - Part A</i> , 2010 , 95, 1096-104	5.4	35
97	Sulfur Tolerance and Hydrocarbon Stability of La _{0.75} Sr _{0.25} Cr _{0.5} Mn _{0.5} O ₃ δ _{0.2} Ce _{0.8} O _{1.9} Composite Anode under Anodic Polarization. <i>Journal of the Electrochemical Society</i> , 2007 , 154, B1206	3.9	35
96	Effects of debinding parameters on powder injection molded Ti-6Al-4V/HA composite parts. <i>Advanced Powder Technology</i> , 2001 , 12, 361-370	4.6	35
95	Effect of the powders melting state on the properties of HVOF sprayed hydroxyapatite coatings. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2000 , 293, 71-80	5.3	35
94	Overcoming the effect of contaminant in solid oxide fuel cell (SOFC) electrolyte: spark plasma sintering (SPS) of 0.5 wt.% silica-doped yttria-stabilized zirconia (YSZ). <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 374, 64-71	5.3	34
93	Characterization of the bone-like apatite precipitated on high velocity oxy-fuel (HVOF) sprayed calcium phosphate deposits. <i>Biomaterials</i> , 2003 , 24, 769-75	15.6	34
92	Processing, microstructure and mechanical properties of yttria stabilized zirconia reinforced hydroxyapatite coatings. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001 , 316, 46-51	5.3	34
91	Influence of oxide mixtures on mechanical properties of plasma sprayed functionally graded coating. <i>Thin Solid Films</i> , 2000 , 368, 86-92	2.2	34
90	Phase composition and heat of crystallisation of amorphous calcium phosphate in ultra-fine radio frequency suspension plasma sprayed hydroxyapatite powders. <i>Acta Materialia</i> , 2004 , 52, 1171-1181	8.4	33
89	Effect of spark plasma sintering (SPS) on the microstructure and mechanical properties of randomly packed hollow sphere (RHS) cell wall. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003 , 356, 130-135	5.3	33
88	Spark plasma sintering of sol-gel derived 45S5 Bioglass-ceramics: Mechanical properties and biocompatibility evaluation. <i>Materials Science and Engineering C</i> , 2012 , 32, 494-502	8.3	32
87	Boride layer growth kinetics during boriding of molybdenum by the Spark Plasma Sintering (SPS) technology. <i>Surface and Coatings Technology</i> , 2006 , 201, 2849-2853	4.4	32
86	Spark plasma sintered hydroxyapatite-yttria stabilized zirconia composites. <i>Ceramics International</i> , 2004 , 30, 1793-1796	5.1	32
85	In vitro behavior of HVOF sprayed calcium phosphate splats and coatings. <i>Biomaterials</i> , 2003 , 24, 723-35	15.6	31
84	Antibacterial Property of Cold Sprayed Chitosan-Cu/Al Coating. <i>Journal of Thermal Spray Technology</i> , 2009 , 18, 600-608	2.5	30
83	Restoring WC in plasma sprayed WC-Co coatings through spark plasma sintering (SPS). <i>Surface and Coatings Technology</i> , 2004 , 182, 308-317	4.4	30
82	Process-microstructure-property relationships in controlled atmosphere plasma spraying of ceramics. <i>Surface and Coatings Technology</i> , 2004 , 183, 204-211	4.4	30
81	Effect of thermal exposure on the microstructure and properties of EB-PVD gradient thermal barrier coatings. <i>Surface and Coatings Technology</i> , 2003 , 168, 23-29	4.4	30

80	Processing of HA-coated Ti-6Al-4V by a ceramic slurry approach: an in vitro study. <i>Biomaterials</i> , 2001 , 22, 1225-32	15.6	30
79	Mechanical alloying of TiC/M2 high speed steel composite powders and sintering investigation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001 , 311, 13-21	5.3	30
78	Ti-6Al-4V/HA composite feedstock for injection molding. <i>Materials Letters</i> , 2002 , 56, 522-532	3.3	30
77	Preparation and characterization of bioactive monolayer and functionally graded coatings. <i>Journal of Materials Science: Materials in Medicine</i> , 1999 , 10, 269-73	4.5	30
76	(La _{0.8} Sr _{0.2}) _{0.9} MnO ₃ δd _{0.2} Ce _{0.8} O _{1.9} composite cathodes prepared from (Gd, Ce)(NO ₃) _x -modified (La _{0.8} Sr _{0.2}) _{0.9} MnO ₃ for intermediate-temperature solid oxide fuel cells. <i>Journal of Solid State Electrochemistry</i> , 2006 , 10, 339-347	2.6	29
75	High temperature in-situ XRD of plasma sprayed HA coatings. <i>Biomaterials</i> , 2002 , 23, 381-7	15.6	29
74	Processing-microstructure-property relations in HVOF sprayed calcium phosphate based bioceramic coatings. <i>Biomaterials</i> , 2003 , 24, 2233-43	15.6	29
73	Spark plasma reaction sintering of ZrO ₂ /mullite composites from plasma spheroidized zircon/alumina powders. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003 , 339, 286-296	5.3	29
72	Characterization of hydroxyapatite and bioglass 16L fibre composites prepared by spark plasma sintering. <i>Materials Letters</i> , 2004 , 58, 304-307	3.3	29
71	Phase reaction and sintering behavior of a Al ₂ O ₃ /0wt%AlN/5wt%Y ₂ O ₃ system. <i>Acta Materialia</i> , 2001 , 49, 3117-3127	8.4	29
70	Comparative proteomics profile of osteoblasts cultured on dissimilar hydroxyapatite biomaterials: an iTRAQ-coupled 2-D LC-MS/MS analysis. <i>Proteomics</i> , 2008 , 8, 4249-58	4.8	28
69	Development of zirconia-glass ionomer cement composites. <i>Journal of Non-Crystalline Solids</i> , 2005 , 351, 508-514	3.9	28
68	The effects of ZrO ₂ on the phase compositions of plasma sprayed HA/YSZ composite coatings. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2000 , 276, 160-166	5.3	28
67	Multilayer assembly of positively charged polyelectrolyte and negatively charged glucose oxidase on a 3D Nafion network for detecting glucose. <i>Biosensors and Bioelectronics</i> , 2007 , 22, 3256-60	11.8	27
66	Initial attachment of osteoblastic cells onto sol-gel derived fluoridated hydroxyapatite coatings. <i>Journal of Biomedical Materials Research - Part A</i> , 2008 , 84, 769-76	5.4	27
65	Single-Step Process toward Achieving Superhydrophobic Reduced Graphene Oxide. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 10985-94	9.5	27
64	Characteristics of the nanostructures in thermal sprayed hydroxyapatite coatings and their influence on coating properties. <i>Surface and Coatings Technology</i> , 2006 , 201, 2147-2154	4.4	26
63	Defect Chemistry of La _[sub 1-x] Sr _[sub x] MnO _[sub 3-δ] under Cathodic Polarization. <i>Electrochemical and Solid-State Letters</i> , 2004 , 7, A144		26

62	An electrolyte model for ceramic oxygen generator and solid oxide fuel cell. <i>Journal of Power Sources</i> , 2002 , 111, 320-328	8.9	26
61	Radio frequency (RF) suspension plasma sprayed ultra-fine hydroxyapatite (HA)/zirconia composite powders. <i>Biomaterials</i> , 2003 , 24, 2611-21	15.6	26
60	Fretting wear behavior of thermal sprayed hydroxyapatite coating lubricated with bovine albumin. <i>Wear</i> , 1999 , 230, 98-102	3.5	24
59	Biocompatible nanostructured high-velocity oxyfuel sprayed titania coating: Deposition, characterization, and mechanical properties. <i>Journal of Thermal Spray Technology</i> , 2006 , 15, 623-627	2.5	23
58	Cyclic voltammetry of (La,Sr)MnO ₃ electrode on YSZ substrate. <i>Solid State Ionics</i> , 2003 , 164, 17-25	3.3	23
57	Characterization of spark plasma sintered Ag nanopowders. <i>Nanotechnology</i> , 2010 , 21, 115707	3.4	21
56	An Improved Anode Micro Model of SOFC. <i>Electrochemical and Solid-State Letters</i> , 2004 , 7, A63		21
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