

M Balasubramanian

List of Publications by Year in descending order

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64
papers

1,522
citations

361388

20
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330122

37
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67
all docs

67
docs citations

67
times ranked

1594
citing authors

#	ARTICLE	IF	CITATIONS
1	Processing and properties of copper-coated carbon fibre reinforced aluminium alloy composites. Journal of Materials Processing Technology, 2009, 209, 2104-2110.	6.3	116
2	Tribological behaviour of clay "thermoset polyester nanocomposites. Wear, 2006, 261, 835-840.	3.1	114
3	Effect of intermediate heat treatment on mechanical properties of SiCf/SiC composites with BN interphase prepared by ICVI. Journal of the European Ceramic Society, 2011, 31, 1145-1153.	5.7	107
4	Synthesis of barium titanate nanopowder using polymeric precursor method. Ceramics International, 2006, 32, 99-103.	4.8	82
5	Mullite from clay"reactive alumina for insulating substrate application. Applied Clay Science, 2004, 25, 29-35.	5.2	75
6	Sol-gel processing of alumina fibres. Journal of Materials Processing Technology, 2006, 173, 275-280.	6.3	71
7	Thermal decomposition and flame retardant behaviour of SiO ₂ -phenolic nanocomposite. Journal of Analytical and Applied Pyrolysis, 2010, 89, 244-249.	5.5	67
8	Size effect on the magnetic property of CoAl ₂ O ₄ nanopowders prepared by reverse micelle processing. Journal of Alloys and Compounds, 2010, 506, 395-399.	5.5	66
9	Effect of MgO, Y ₂ O ₃ and boehmite additives on the sintering behaviour of mullite formed from kaolinite-reactive alumina. Journal of Materials Processing Technology, 2003, 142, 275-281.	6.3	59
10	Mullitisation behaviour of calcined clay"alumina mixtures. Ceramics International, 2003, 29, 561-571.	4.8	54
11	Thermal conductivity studies on Si/SiC ceramic composites. Ceramics International, 2011, 37, 423-426.	4.8	41
12	Synthesis and characterization of Si/SiC ceramics prepared using cotton fabric. Ceramics International, 2009, 35, 967-973.	4.8	39
13	Effect of polycarbosilane addition to a mixture of rice husk and coconut shell on SiC whisker growth. Ceramics International, 2016, 42, 2393-2401.	4.8	37
14	Mullitisation behaviour of south Indian clays. Ceramics International, 2002, 28, 557-564.	4.8	36
15	Effect of magnesium oxide on sol-gel spun alumina and alumina-zirconia fibres. Journal of the European Ceramic Society, 2006, 26, 2611-2617.	5.7	28
16	Starch consolidation of alumina: Fabrication and mechanical properties. Journal of the European Ceramic Society, 2009, 29, 2219-2224.	5.7	28
17	Effect of water to surfactant ratio (R) on the particle size of MgAl ₂ O ₄ nanoparticle prepared via reverse micelle process. Journal of Alloys and Compounds, 2010, 491, L25-L28.	5.5	28
18	On correlation between $\beta \rightarrow \gamma$ transformation and densification mechanisms in SiC during spark plasma sintering. Scripta Materialia, 2016, 115, 137-140.	5.2	27

#	ARTICLE	IF	CITATIONS
19	Preparation and Properties of Polyester-Based Nanocomposite Gel Coat System. Journal of Nanomaterials, 2006, 2006, 1-7.	2.7	25
20	Solution phase synthesis of $t\text{-ZrO}_2$ nanoparticles in $\text{ZrO}_2\text{-SiO}_2$ mixed oxide. Journal of Experimental Nanoscience, 2011, 6, 38-48.	2.4	25
21	Development of biomorphic alumina using egg shell membrane as bio-template. Ceramics International, 2018, 44, 4615-4621.	4.8	21
22	Solid particle erosion studies on biomorphic Si/SiC ceramic composites. Wear, 2010, 268, 145-152.	3.1	19
23	Machinability Study of Hybrid Nanoclay-Glass Fibre Reinforced Polyester Composites. International Journal of Polymer Science, 2013, 2013, 1-11.	2.7	19
24	Synthesis and characterization of high ceramic yield polycarbosilane precursor for SiC. Journal of Advanced Ceramics, 2015, 4, 307-311.	17.4	18
25	Reactive extrusion of poly(L-lactic acid) with glycidol. Journal of Applied Polymer Science, 2009, 112, 1391-1398.	2.6	17
26	Synthesis and Characterization of LaAlO_3 Nanopowders by Various Fuels. Materials and Manufacturing Processes, 2010, 25, 1449-1453.	4.7	17
27	Reciprocating sliding wear studies on Si/SiC ceramic composites. Wear, 2011, 271, 1039-1049.	3.1	16
28	Flexural and tribological properties of polyester-clay nanocomposites. Journal of Materials Science, 2005, 40, 4391-4393.	3.7	15
29	Influence of Nanosize Clay Platelets on the Mechanical Properties of Glass Fiber Reinforced Polyester Composites. Journal of Nanoscience and Nanotechnology, 2006, 6, 3973-3976.	0.9	14
30	Effect of different fuels on the alumina-ceria composite powders synthesized by sol-gel auto combustion method. Journal of Alloys and Compounds, 2009, 479, 363-367.	5.5	14
31	Investigation of impact behavior of epoxy reinforced with nanometer- and micrometer-sized silicon carbide particles. Journal of Composite Materials, 2013, 47, 1877-1884.	2.4	14
32	Extrusion of alumina fibre using sol-gel precursor. Journal of Materials Science, 2006, 41, 6026-6030.	3.7	13
33	Optimization of barium titanate nanopowder slip for tape casting. Journal of Materials Science, 2006, 41, 7082-7087.	3.7	13
34	Properties of Si/SiC ceramic composite subjected to chemical vapour infiltration. Ceramics International, 2009, 35, 2601-2607.	4.8	13
35	Electrical and Magnetic Properties of Nanocrystalline BiFeO_3 Prepared by High Energy Ball Milling and Microwave Sintering. Journal of Nanoscience and Nanotechnology, 2011, 11, 4097-4102.	0.9	13
36	Synthesis and Characterization of Sol-Gel Alumina Fiber by Seeding $\gamma\text{-Al}_2\text{O}_3$ Through Extended Ball Milling. Materials and Manufacturing Processes, 2008, 23, 786-790.	4.7	12

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37	Effect of thermal cycling of SiCf/SiC composites on their mechanical properties. Journal of Nuclear Materials, 2013, 442, S384-S389.	2.7	12
38	Effect of temperature and gaseous medium on the evolved microstructures of carbon fiber reinforced reaction bonded silicon nitride composites. Ceramics International, 2017, 43, 6110-6116.	4.8	11
39	Effect of Fe doping on the room temperature ferromagnetism in chemically synthesized $(\text{In}_{1-x}\text{Fe}_x)\text{ZnO}$ magnetic semiconductors. Current Applied Physics, 2010, 10, 333-336.	2.4	10
40	Effect of MgO on mullitization behavior of clays. Journal of Materials Science Letters, 2003, 22, 663-668.	0.5	9
41	Size effect studies on nanocrystalline $\text{Pb}(\text{Zr}_{0.53}\text{Ti}_{0.47})\text{O}_3$ synthesized by mechanical activation route. Materials Chemistry and Physics, 2009, 117, 338-342.	4.0	9
42	Synthesis and Characterization of Nano Silicon Carbide Powder from Agricultural Waste. Transactions of the Indian Ceramic Society, 2011, 70, 115-118.	1.0	9
43	Synthesis of tailored 2D SiCf/SiC ceramic matrix composites with BN/C interphase through ICVI. Journal of Nuclear Materials, 2011, 417, 363-366.	2.7	8
44	The Influence of Oleic Acid to Metal Nitrate Ratio on the Particle Size and Magnetic Properties of Lanthanum Ferrite Nanoparticles by Emulsion Method. Materials and Manufacturing Processes, 2011, 26, 230-235.	4.7	8
45	Synthesis and Characterization of CaO Doped Alumina-Zirconia Fibers by Sol-Gel Process. Materials and Manufacturing Processes, 2008, 23, 158-161.	4.7	7
46	Synthesis and Characterization of Alumina-Zirconia Nanopowders via an Oxalate Route. Materials and Manufacturing Processes, 2008, 23, 777-781.	4.7	7
47	Sol-Gel Based Extrusion of Alumina Fibers. Materials and Manufacturing Processes, 2006, 21, 319-323.	4.7	6
48	Influence of N and Fe on α -Ti precipitation in the in situ Ti-C titanium alloy composites. Journal of Materials Science, 2011, 46, 1103-1109.	3.7	6
49	Influence of the type of interface on the tribological characteristics of ICVI generated SiCf/SiC composites. Wear, 2011, 271, 859-865.	3.1	6
50	Gd ₂ O ₃ :Eu Nanophosphors Prepared Via Reverse Micelle Processing: Influence of Eu ³⁺ Content on Photoluminescence Property. Materials and Manufacturing Processes, 2012, 27, 1290-1294.	4.7	6
51	Sol-gel based extrusion of alumina-zirconia fibres. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 408, 165-168.	5.6	5
52	Grinding of sol-gel derived alumina-zirconia composites. International Journal of Refractory Metals and Hard Materials, 1995, 13, 359-363.	3.8	4
53	Characterization of Aluminous Clays from Tamilnadu. Transactions of the Indian Ceramic Society, 2002, 61, 176-180.	1.0	3
54	Extrusion of alumina fibers using zirconia sol as binder. Ceramics International, 2007, 33, 1631-1634.	4.8	3

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55	Variations in an oleic acid and metal nitrate emulsion under calcination on the structural and morphology of LaAlO ₃ nanopowders. <i>Journal of Alloys and Compounds</i> , 2010, 498, L1-L4.	5.5	3
56	Effect of Ni Doping on the Structure and Magnetic Property in Chemically Synthesized (In _{1-x} Ni _x) ₂ O ₃ (x=0.03, 0.05, and) <i>Tj BT / Over</i>	4.7	0
57	On the formation of γ -alumina single crystal platelets through eggshell membrane bio-templating. <i>Scripta Materialia</i> , 2021, 195, 113716.	5.2	3
58	Influence of calcination temperature on the properties of spray dried alumina-zirconia composite powders. <i>Journal of Materials Science</i> , 1995, 30, 3515-3520.	3.7	2
59	Study on Utilization of Neyveli Clay in the Production of Value Added Ceramics. <i>Transactions of the Indian Ceramic Society</i> , 2002, 61, 93-98.	1.0	2
60	Sintering Behavior of Sol-Gel-Derived Alumina and Alumina-Zirconia Minispheres. <i>Materials and Manufacturing Processes</i> , 2006, 21, 804-809.	4.7	2
61	Investigation on PZT-Based Nanostructured Functional Materials. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2014, 44, 991-994.	0.6	2
62	Influence of particle characteristics on sintering behaviour of alumina-zirconia composites. <i>Journal of Materials Science Letters</i> , 1995, 14, 1484-1485.	0.5	1
63	Optimization of Processing Conditions on the Yield of Nano SiC Powder from Rice Husk. <i>Advanced Materials Research</i> , 0, 341-342, 103-107.	0.3	1
64	Helium gas permeability of SiC tubes produced using cotton fabric. <i>Ceramics International</i> , 2015, 41, 3589-3594.	4.8	1