Ranjit Bauri

List of Publications by Year
in descending order

57 papers	1,831 citations	279701 23 h-index	276775 41 g-index
57 all docs	57 docs citations	57 times ranked	1609 citing authors

#	Article	IF	Citations
1	Zinc Vanadium Oxide Nanobelts as High-Performance Cathodes for Rechargeable Zinc-Ion Batteries. Energy & Fuels, 2022, 36, 7854-7864.	2.5	5
2	Friction surfacing: A tool for surface crack repair. Surface and Coatings Technology, 2021, 422, 127482.	2.2	19
3	Phase stability and conductivity of rare earth co-doped nanocrystalline zirconia electrolytes for solid oxide fuel cells. Journal of Alloys and Compounds, 2020, 833, 155100.	2.8	16
4	A novel method to process oxide dispersed strengthened alloy interconnect. Materialia, 2019, 5, 100229.	1.3	2
5	A Novel Thermomechanical Processing Route to Fabricate ODS Ferritic Stainless Steel Interconnects and Their Oxidation Behavior. Oxidation of Metals, 2019, 91, 609-624.	1.0	1
6	A novel functionally gradient Ti/TiB/TiC hybrid composite with wear resistant surface layer. Journal of Alloys and Compounds, 2018, 744, 438-444.	2.8	22
7	Introduction to Friction Stir Processing (FSP). , 2018, , 17-29.		6
8	Processing Metal Matrix Composite (MMC) by FSP. , 2018, , 31-55.		3
9	Processing Nonequilibrium Composite (NMMC) by FSP. , 2018, , 57-91.		0
10	Surface Composites by FSP. , 2018, , 93-115.		2
11	Fabrication of Al-Zn solid solution via friction stir processing. Materials Characterization, 2018, 136, 221-228.	1.9	29
12	A novel route to enhance the sinterability and its effect on microstructure, conductivity and chemical stability of BaCe0.4Zr0.4Y0.2O3-Î´ proton conductors. Materials Chemistry and Physics, 2018, 216, 250-259.	2.0	11
13	A novel spark plasma sintering route to process high-strength Tiâ€"4Alâ€"2Fe/TiB nano-composite. Materials Science and Technology, 2018, 34, 2008-2017.	0.8	2
14	Processing and conduction behavior of nanocrystalline Gd-doped and rare earth co-doped ceria electrolytes. Electrochimica Acta, 2016, 209, 541-550.	2.6	32
15	Wear properties of 5083 Alâ€"W surface composite fabricated by friction stir processing. Tribology International, 2016, 101, 284-290.	3.0	51
16	Y and In-doped BaCeO3-BaZrO3 solid solutions: Chemically stable and easily sinterable proton conducting oxides. Journal of Alloys and Compounds, 2016, 688, 1039-1046.	2.8	33
17	Al-Ti Particulate Composite: Processing and Studies on Particle Twinning, Microstructure, and Thermal Stability. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 4226-4238.	1.1	23
18	Size-controlled growth of spherical nanoparticles of Y-doped BaZrO3 perovskite. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	3

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19	Friction Stir Processing of Al-TiB2 In Situ Composite: Effect on Particle Distribution, Microstructure and Properties. Journal of Materials Engineering and Performance, 2015, 24, 1116-1124.	1.2	29
20	One step synthesis and conductivity of alkaline and rare earth co-doped nanocrystalline CeO2 electrolytes. Ceramics International, 2015, 41, 6299-6305.	2.3	13
21	Development of Cu particles and Cu core-shell particles reinforced Al composite. Materials Science and Technology, 2015, 31, 494-500.	0.8	25
22	Effects of ball milling and particle size on microstructure and properties 5083 Alâ€“Ni composites fabricated by friction stir processing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 645, 205-212.	2.6	28
23	Phase evolution and morphology of nanocrystalline BaCe0.9Er0.1O3âˆ'Î´ proton conducting oxide synthesised by a novel modified solution combustion route. Journal of Physics and Chemistry of Solids, 2015, 87, 80-86.	1.9	0
24	Optimized process parameters for fabricating metal particles reinforced 5083 Al composite by friction stir processing. Data in Brief, 2015, 5, 309-313.	0.5	10
25	Effect of Process Parameters and Tool Geometry on Fabrication of Ni Particles Reinforced 5083 Al Composite by Friction Stir Processing. Materials Today: Proceedings, 2015, 2, 3203-3211.	0.9	30
26	Tungsten particle reinforced Al 5083 composite with high strength and ductility. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 620, 67-75.	2.6	105
27	ÂEffect Of Nanoclay On The Toughness Of Epoxy And Mechanical, Impact Properties Of E-glass-epoxy Composites. Advanced Materials Letters, 2015, 6, 684-689.	0.3	40
28	Enhancing the phase stability and ionic conductivity of scandia stabilized zirconia by rare earth co-doping. Journal of Physics and Chemistry of Solids, 2014, 75, 642-650.	1.9	25
29	Microstructure and Mechanical Properties of Titanium Processed by Spark Plasma Sintering (SPS). Metallography, Microstructure, and Analysis, 2014, 3, 30-35.	0.5	25
30	Synthesis, phase stability and conduction behavior of rare earth and transition elements doped barium cerates. International Journal of Hydrogen Energy, 2014, 39, 14487-14495.	3.8	16
31	Deactivation and regeneration of Ni catalyst during steam reforming of model biogas: An experimental investigation. International Journal of Hydrogen Energy, 2014, 39, 297-304.	3.8	83
32	A detailed kinetic model for biogas steam reforming on Ni and catalyst deactivation due to sulfur poisoning. Applied Catalysis A: General, 2014, 471, 118-125.	2.2	81
33	Optimization of process parameters for friction stir processing (FSP) of Alâ€“TiC in situ composite. Bulletin of Materials Science, 2014, 37, 571-578.	0.8	25
34	Reaction mechanism, microstructure and properties of Tiâ€“TiB insitu composite processed by spark plasma sintering. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 587, 161-167.	2.6	16
35	Effect of sintering atmosphere on densification, redox chemistry and conduction behavior of nanocrystalline Gd-doped CeO2 electrolytes. Ceramics International, 2013, 39, 9421-9428.	2.3	12
36	Microstructure Development in Single and Double-Pass Friction Stir Processing of Aluminium. Materials Science Forum, 2013, 753, 50-53.	0.3	3

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37	Rare Earth Co-Doped Nanocrystalline Ceria Electrolytes for Intermediate Temperature Solid Oxide Fuel Cells (IT-SOFC). ECS Transactions, 2013, 57, 1115-1123.	0.3	11
38	Effect of friction stir processing on microstructure and mechanical properties of aluminium. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 539, 85-92.	2.6	149
39	Development of Niâ€"YSZ cermet anode for solid oxide fuel cells by electroless Ni coating. Journal of Coatings Technology Research, 2012, 9, 229-234.	1.2	6
40	Microstructural characterisation of friction stir processed aluminium. Materials Science and Technology, 2011, 27, 1163-1169.	0.8	13
41	Phase formation and ionic conductivity studies on ytterbia co-doped scandia stabilized zirconia (0.9ZrO2â€"0.09Sc2O3â€"0.01Yb2O3) electrolyte for SOFCs. Solid State Sciences, 2011, 13, 1520-1525.	1.5	31
42	Effect of fuel type on microstructure and electrical property of combustion synthesized nanocrystalline scandia stabilized zirconia. Materials Chemistry and Physics, 2011, 126, 741-746.	2.0	16
43	Synthesis and characterization of nanocrystalline ScSZ electrolyte for SOFCs. International Journal of Hydrogen Energy, 2011, 36, 14936-14942.	3.8	36
44	Effect of friction stir processing (FSP) on microstructure and properties of Alâ€"TiC in situ composite. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 4732-4739.	2.6	202
45	Processing, microstructure and mechanical properties of nickel particles embedded aluminium matrix composite. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 1326-1333.	2.6	119
46	Fabrication of Metal Particles Embedded Aluminum Matrix Composite by Friction Stir Processing (FSP). , 2011, , .		2
47	Processing Niâ€"YSZ anode by electroless Ni deposition with AgNO₃ as activator. Surface Engineering, 2011, 27, 705-710.	1.1	4
48	Synthesis and characterization of nanocrystalline Niâ€"YSZ cermet anode for SOFC. Materials Characterization, 2010, 61, 54-58.	1.9	31
49	Nickel particle embedded aluminium matrix composite with high ductility. Materials Letters, 2010, 64, 664-667.	1.3	103
50	Processing and compressive strength of Alâ€"Liâ€"SiCp composites fabricated by a compound billet technique. Journal of Materials Processing Technology, 2009, 209, 2077-2084.	3.1	33
51	Synthesis of Al -TiC in-situ composites: Effect of processing temperature and Ti:C ratio. Transactions of the Indian Institute of Metals, 2009, 62, 391-395.	0.7	20
52	Effect of equal channel angular pressing (ECAP) on microstructure and properties of Alâ€"SiCp composites. Materials & Design, 2009, 30, 3554-3559.	5.1	94
53	Sliding wear behavior of Alâ€"Liâ€"SiCp composites. Wear, 2008, 265, 1756-1766.	1.5	46
54	Processing and properties of Alâ€"Liâ€"SiC_p composites. Science and Technology of Advanced Materials, 2007, 8, 494-502.	2.8	47

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55	Investigations on serrated flow in 8090 Al alloy and 8090 Alâ€“SiCp composites occurring during dynamic ultra low load micro hardness (DUH) indentation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 393, 22-26.	2.6	4
56	Relating microtexture and dynamic micro hardness in an extruded AA8090 alloy and AA8090-8 vol% SiCpcomposite. Science and Technology of Advanced Materials, 2005, 6, 933-938.	2.8	12
57	Damping behavior of Al-Li-SiCp composites processed by stir casting technique. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2005, 36, 667-673.	1.1	26