

# Ranjit Bauri

## List of Publications by Year in descending order

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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	Effect of friction stir processing (FSP) on microstructure and properties of Al-TiC in situ composite. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 4732-4739.	2.6	202
2	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
3	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
4	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
5	Nickel particle embedded aluminium matrix composite with high ductility. Materials Letters, 2010, 64, 664-667.	1.3	103
6	Effect of equal channel angular pressing (ECAP) on microstructure and properties of Al-SiCp composites. Materials & Design, 2009, 30, 3554-3559.	5.1	94
7	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
8	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
9	Wear properties of 5083 Al-W surface composite fabricated by friction stir processing. Tribology International, 2016, 101, 284-290.	3.0	51
10	Processing and properties of Al-Li-SiC <sub>p</sub> composites. Science and Technology of Advanced Materials, 2007, 8, 494-502.	2.8	47
11	Sliding wear behavior of Al-Li-SiCp composites. Wear, 2008, 265, 1756-1766.	1.5	46
12	Effect 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
13	Synthesis and characterization of nanocrystalline ScSZ electrolyte for SOFCs. International Journal of Hydrogen Energy, 2011, 36, 14936-14942.	3.8	36
14	Processing and compressive strength of Al-Li-SiCp composites fabricated by a compound billet technique. Journal of Materials Processing Technology, 2009, 209, 2077-2084.	3.1	33
15	Y and In-doped BaCeO <sub>3</sub> -BaZrO <sub>3</sub> solid solutions: Chemically stable and easily sinterable proton conducting oxides. Journal of Alloys and Compounds, 2016, 688, 1039-1046.	2.8	33
16	Processing and conduction behavior of nanocrystalline Gd-doped and rare earth co-doped ceria electrolytes. Electrochimica Acta, 2016, 209, 541-550.	2.6	32
17	Synthesis and characterization of nanocrystalline Ni-YSZ cermet anode for SOFC. Materials Characterization, 2010, 61, 54-58.	1.9	31
18	Phase formation and ionic conductivity studies on ytterbia co-doped scandia stabilized zirconia (0.9ZrO <sub>2</sub> ·0.09Sc <sub>2</sub> O <sub>3</sub> ·0.01Yb <sub>2</sub> O <sub>3</sub> ) electrolyte for SOFCs. Solid State Sciences, 2011, 13, 1520-1525.	1.5	31

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19	Effect of Process Parameters and Tool Geometry on Fabrication of Ni Particles Reinforced 5083 Al Composite by Friction Stir Processing. <i>Materials Today: Proceedings</i> , 2015, 2, 3203-3211.	0.9	30
20	Friction Stir Processing of Al-TiB <sub>2</sub> In Situ Composite: Effect on Particle Distribution, Microstructure and Properties. <i>Journal of Materials Engineering and Performance</i> , 2015, 24, 1116-1124.	1.2	29
21	Fabrication of Al-Zn solid solution via friction stir processing. <i>Materials Characterization</i> , 2018, 136, 221-228.	1.9	29
22	Effects of ball milling and particle size on microstructure and properties 5083 Al-Ni composites fabricated by friction stir processing. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 645, 205-212.	2.6	28
23	Damping behavior of Al-Li-SiCp composites processed by stir casting technique. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2005, 36, 667-673.	1.1	26
24	Enhancing the phase stability and ionic conductivity of scandia stabilized zirconia by rare earth co-doping. <i>Journal of Physics and Chemistry of Solids</i> , 2014, 75, 642-650.	1.9	25
25	Microstructure and Mechanical Properties of Titanium Processed by Spark Plasma Sintering (SPS). <i>Metallography, Microstructure, and Analysis</i> , 2014, 3, 30-35.	0.5	25
26	Optimization of process parameters for friction stir processing (FSP) of Al-TiC in situ composite. <i>Bulletin of Materials Science</i> , 2014, 37, 571-578.	0.8	25
27	Development of Cu particles and Cu core-shell particles reinforced Al composite. <i>Materials Science and Technology</i> , 2015, 31, 494-500.	0.8	25
28	Al-Ti Particulate Composite: Processing and Studies on Particle Twinning, Microstructure, and Thermal Stability. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016, 47, 4226-4238.	1.1	23
29	A novel functionally gradient Ti/TiB/TiC hybrid composite with wear resistant surface layer. <i>Journal of Alloys and Compounds</i> , 2018, 744, 438-444.	2.8	22
30	Synthesis of Al-TiC in-situ composites: Effect of processing temperature and Ti:C ratio. <i>Transactions of the Indian Institute of Metals</i> , 2009, 62, 391-395.	0.7	20
31	Friction surfacing: A tool for surface crack repair. <i>Surface and Coatings Technology</i> , 2021, 422, 127482.	2.2	19
32	Effect of fuel type on microstructure and electrical property of combustion synthesized nanocrystalline scandia stabilized zirconia. <i>Materials Chemistry and Physics</i> , 2011, 126, 741-746.	2.0	16
33	Reaction mechanism, microstructure and properties of Ti-TiB in situ composite processed by spark plasma sintering. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 587, 161-167.	2.6	16
34	Synthesis, phase stability and conduction behavior of rare earth and transition elements doped barium cerates. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 14487-14495.	3.8	16
35	Phase stability and conductivity of rare earth co-doped nanocrystalline zirconia electrolytes for solid oxide fuel cells. <i>Journal of Alloys and Compounds</i> , 2020, 833, 155100.	2.8	16
36	Microstructural characterisation of friction stir processed aluminium. <i>Materials Science and Technology</i> , 2011, 27, 1163-1169.	0.8	13

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37	One step synthesis and conductivity of alkaline and rare earth co-doped nanocrystalline CeO <sub>2</sub> electrolytes. <i>Ceramics International</i> , 2015, 41, 6299-6305.	2.3	13
38	Relating microtexture and dynamic micro hardness in an extruded AA8090 alloy and AA8090-8 vol% SiCp composite. <i>Science and Technology of Advanced Materials</i> , 2005, 6, 933-938.	2.8	12
39	Effect of sintering atmosphere on densification, redox chemistry and conduction behavior of nanocrystalline Gd-doped CeO <sub>2</sub> electrolytes. <i>Ceramics International</i> , 2013, 39, 9421-9428.	2.3	12
40	Rare Earth Co-Doped Nanocrystalline Ceria Electrolytes for Intermediate Temperature Solid Oxide Fuel Cells (IT-SOFC). <i>ECS Transactions</i> , 2013, 57, 1115-1123.	0.3	11
41	A novel route to enhance the sinterability and its effect on microstructure, conductivity and chemical stability of BaCe <sub>0.4</sub> Zr <sub>0.4</sub> Y <sub>0.2</sub> O <sub>3-<math>\delta</math></sub> proton conductors. <i>Materials Chemistry and Physics</i> , 2018, 216, 250-259.	2.0	11
42	Optimized process parameters for fabricating metal particles reinforced 5083 Al composite by friction stir processing. <i>Data in Brief</i> , 2015, 5, 309-313.	0.5	10
43	Development of Ni-YSZ cermet anode for solid oxide fuel cells by electroless Ni coating. <i>Journal of Coatings Technology Research</i> , 2012, 9, 229-234.	1.2	6
44	Introduction to Friction Stir Processing (FSP). , 2018, , 17-29.		6
45	Zinc Vanadium Oxide Nanobelts as High-Performance Cathodes for Rechargeable Zinc-Ion Batteries. <i>Energy &amp; Fuels</i> , 2022, 36, 7854-7864.	2.5	5
46	Investigations on serrated flow in 8090 Al alloy and 8090 Al-SiCp composites occurring during dynamic ultra low load micro hardness (DUH) indentation. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005, 393, 22-26.	2.6	4
47	Processing Ni-YSZ anode by electroless Ni deposition with AgNO <sub>3</sub> as activator. <i>Surface Engineering</i> , 2011, 27, 705-710.	1.1	4
48	Microstructure Development in Single and Double-Pass Friction Stir Processing of Aluminium. <i>Materials Science Forum</i> , 2013, 753, 50-53.	0.3	3
49	Size-controlled growth of spherical nanoparticles of Y-doped BaZrO <sub>3</sub> perovskite. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	1.1	3
50	Processing Metal Matrix Composite (MMC) by FSP. , 2018, , 31-55.		3
51	Fabrication of Metal Particles Embedded Aluminum Matrix Composite by Friction Stir Processing (FSP). , 2011, , .		2
52	Surface Composites by FSP. , 2018, , 93-115.		2
53	A novel spark plasma sintering route to process high-strength Ti-4Al-2Fe/TiB nano-composite. <i>Materials Science and Technology</i> , 2018, 34, 2008-2017.	0.8	2
54	A novel method to process oxide dispersed strengthened alloy interconnect. <i>Materialia</i> , 2019, 5, 100229.	1.3	2

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55	A Novel Thermomechanical Processing Route to Fabricate ODS Ferritic Stainless Steel Interconnects and Their Oxidation Behavior. <i>Oxidation of Metals</i> , 2019, 91, 609-624.	1.0	1
56	Phase evolution and morphology of nanocrystalline $\text{BaCe}_{0.9}\text{Er}_{0.1}\text{O}_{3-\delta}$ proton conducting oxide synthesised by a novel modified solution combustion route. <i>Journal of Physics and Chemistry of Solids</i> , 2015, 87, 80-86.	1.9	0
57	Processing Nonequilibrium Composite (NMMC) by FSP. , 2018, , 57-91.		0