## Subramshu S Bhattacharya

## 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.

56	1,607	17	39
papers	citations	h-index	g-index
58	2,211 ext. citations	5.2	4.85
ext. papers		avg, IF	L-index

#	Paper	IF	Citations
56	Structural and Electrochemical Investigations on Nanocrystalline High Entropy Spinel Oxides for Battery-Like Supercapacitor Applications. <i>ChemistrySelect</i> , <b>2022</b> , 7, e202104015	1.8	1
55	Comprehensive investigation of crystallographic, spin-electronic and magnetic structure of (Co0.2Cr0.2Fe0.2Mn0.2Ni0.2)3O4: Unraveling the suppression of configuration entropy in high entropy oxides. <i>Acta Materialia</i> , <b>2022</b> , 226, 117581	8.4	5
54	Determining role of individual cations in high entropy oxides: Structure and reversible tuning of optical properties. <i>Scripta Materialia</i> , <b>2022</b> , 207, 114273	5.6	2
53	Dielectric and ferroelectric properties of multicomponent equiatomic calcium lead strontium titanate (Ca0.33Pb0.33Sr0.33)TiO3. <i>Open Ceramics</i> , <b>2021</b> , 6, 100130	3.3	О
52	High Entropy and Low Symmetry: Triclinic High-Entropy Molybdates. <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 115-	1523	3
51	Mechanochemical synthesis of novel rutile-type high entropy fluorides for electrocatalysis. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 8998-9009	13	11
50	High entropy spinel metal oxide (CoCrFeMnNi)3O4 nanoparticles as a high-performance supercapacitor electrode material. <i>Journal of Energy Storage</i> , <b>2021</b> , 42, 103004	7.8	10
49	Factors influencing phase formation and band gap studies of a novel multicomponent high entropy (Co,Cu,Mg,Ni,Zn)2TiO4 orthotitanate spinel. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 888, 161390	5.7	3
48	A comparative study of the mechanical and tribological properties of intermittently and continuously grown multilayer diamond films on RB-SiC. <i>Diamond and Related Materials</i> , <b>2020</b> , 110, 108	140	2
47	Role of intermediate 4f states in tuning the band structure of high entropy oxides. <i>APL Materials</i> , <b>2020</b> , 8, 051111	5.7	22
46	Role of size, alio-/multi-valency and non-stoichiometry in the synthesis of phase-pure high entropy oxide (Co,Cu,Mg,Na,Ni,Zn)O. <i>Dalton Transactions</i> , <b>2020</b> , 49, 7123-7132	4.3	13
45	Gassing Behavior of High-Entropy Oxide Anode and Oxyfluoride Cathode Probed Using Differential Electrochemical Mass Spectrometry. <i>Batteries and Supercaps</i> , <b>2020</b> , 3, 361-369	5.6	18
44	Effect of defect states in the optical and magnetic properties of nanocrystalline NiO synthesised in a single step by an aerosol process. <i>Ceramics International</i> , <b>2020</b> , 46, 5671-5680	5.1	8
43	Multicomponent equiatomic lead strontium calcium titanate (Pb Sr Ca) Ti O3 prepared by reverse co-precipitation. <i>Materialia</i> , <b>2020</b> , 9, 100571	3.2	2
42	Antiferromagnetism in a nanocrystalline high entropy oxide (Co,Cu,Mg,Ni,Zn)O: Magnetic constituents and surface anisotropy leading to lattice distortion. <i>Acta Materialia</i> , <b>2020</b> , 200, 526-536	8.4	12
41	Lithium containing layered high entropy oxide structures. Scientific Reports, 2020, 10, 18430	4.9	22
40	High entropy oxides as anode material for Li-ion battery applications: A practical approach. <i>Electrochemistry Communications</i> , <b>2019</b> , 100, 121-125	5.1	73

## (2014-2019)

39	Multi-anionic and -cationic compounds: new high entropy materials for advanced Li-ion batteries. <i>Energy and Environmental Science</i> , <b>2019</b> , 12, 2433-2442	35.4	121
38	High-Entropy Oxides: Fundamental Aspects and Electrochemical Properties. <i>Advanced Materials</i> , <b>2019</b> , 31, e1806236	24	197
37	On the homogeneity of high entropy oxides: An investigation at the atomic scale. <i>Scripta Materialia</i> , <b>2019</b> , 166, 58-63	5.6	53
36	Spark Plasma Sintering of Graded Dissimilar Metals. <i>Transactions of the Indian Institute of Metals</i> , <b>2019</b> , 72, 1837-1852	1.2	O
35	High-Entropy Oxides: High-Entropy Oxides: Fundamental Aspects and Electrochemical Properties (Adv. Mater. 26/2019). <i>Advanced Materials</i> , <b>2019</b> , 31, 1970189	24	5
34	Synthesis of nanocrystalline alumina (Al 2 O 3 ) particles from an aqueous precursor by flame-assisted spray pyrolysis. <i>Materials Today: Proceedings</i> , <b>2018</b> , 5, 10023-10027	1.4	1
33	Flame Synthesis of Nanocrystalline Zirconia and Yttria Stabilised Zirconia (YSZ) Composites Using Inorganic Precursors. <i>Materials Today: Proceedings</i> , <b>2018</b> , 5, 10000-10006	1.4	
32	Development of superplasticity in an AlMg alloy through severe plastic deformation. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2018</b> , 94, 2973-2979	3.2	3
31	High entropy oxides for reversible energy storage. <i>Nature Communications</i> , <b>2018</b> , 9, 3400	17.4	299
30	Structural and optical properties of nanocrystalline pure and indium doped tin oxide powders synthesized in a single step by flame spray pyrolysis. <i>Materials Research Express</i> , <b>2017</b> , 4, 075034	1.7	1
29	Multicomponent equiatomic rare earth oxides with a narrow band gap and associated praseodymium multivalency. <i>Dalton Transactions</i> , <b>2017</b> , 46, 12167-12176	4.3	128
28	Nanocrystalline multicomponent entropy stabilised transition metal oxides. <i>Journal of the European Ceramic Society</i> , <b>2017</b> , 37, 747-754	6	146
27	Multicomponent equiatomic rare earth oxides. <i>Materials Research Letters</i> , <b>2017</b> , 5, 102-109	7.4	148
26	On the power law description of low-stress uni-axial steady-state high-homologous-temperature deformation. <i>Mechanics of Materials</i> , <b>2015</b> , 91, 177-193	3.3	7
25	Effect of Process Parameters on the Characteristics of Nanocrystalline Alumina Particles Synthesized by Solution Combustion Process. <i>Transactions of the Indian Institute of Metals</i> , <b>2015</b> , 68, 147-151	1.2	5
24	Growth and characterization of diamond particles, diamond films, and CNT-diamond composite films deposited simultaneously by hot filament CVD. <i>Journal of Materials Science</i> , <b>2015</b> , 50, 144-156	4.3	7
23	Spark Plasma Welding of Austenitic Stainless Steel AISI 304L to Commercially Pure Titanium. <i>Transactions of the Indian Institute of Metals</i> , <b>2015</b> , 68, 289-297	1.2	17
22	Nanocrystalline diamond coatings on the interior of WClīo dies for drawing carbon steel tubes: Enhancement of tube properties. <i>Diamond and Related Materials</i> , <b>2014</b> , 50, 33-37	3.5	14

21	Effect of temperature on the stability of diamond particles and continuous thin films by Raman imaging. <i>Journal of Nanoparticle Research</i> , <b>2013</b> , 15, 1	2.3	7
20	Experimental Studies on the Superplastic Forming of Square Shaped Components and Diffusion Bonding Characteristics of TiBAlBV Alloy. <i>Transactions of the Indian Institute of Metals</i> , <b>2013</b> , 66, 313-323	3 <sup>1.2</sup>	4
19	Chemical vapor deposition of diamond coatings on tungsten carbide (WCLO) riveting inserts. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2013</b> , 37, 117-120	4.1	24
18	Integration of perovskite PZT thin films on diamond substrate without buffer layer. <i>Journal Physics D: Applied Physics</i> , <b>2012</b> , 45, 202001	3	19
17	A comparative study on wear behavior of TiN and diamond coated WCII o substrates against hypereutectic AlBi alloys. <i>Applied Surface Science</i> , <b>2012</b> , 261, 520-527	6.7	14
16	Adhesive Microcrystalline Diamond Coating on Surface Modified Non-Carbide Forming Substrate Using Hot Filament CVD. <i>Materials Express</i> , <b>2012</b> , 2, 115-120	1.3	10
15	Coining Test for Evaluation of Tool Performance. <i>Transactions of the Indian Institute of Metals</i> , <b>2011</b> , 64, 359-363	1.2	
14	Experimental studies on the superplastic forming of square shaped components from sheets of Ti-6Al-4V alloy. <i>Transactions of the Indian Institute of Metals</i> , <b>2011</b> , 64, 21-25	1.2	3
13	Flame spray synthesis of nano lanthanum strontium manganite for solid oxide fuel cell applications. <i>Transactions of the Indian Institute of Metals</i> , <b>2011</b> , 64, 181-184	1.2	3
12	High temperature stability of nanocrystalline anatase powders prepared by chemical vapour synthesis under varying process parameters. <i>Applied Surface Science</i> , <b>2011</b> , 257, 6761-6767	6.7	3
11	Structure, thermal stability, and optical properties of boron modified nanocrystalline anatase prepared by chemical vapor synthesis. <i>Journal of Applied Physics</i> , <b>2009</b> , 105, 113526	2.5	1
10	Oxidative electrodeposition of nanocrystalline zinc oxide powders. <i>Journal Physics D: Applied Physics</i> , <b>2009</b> , 42, 115305	3	3
9	On the hot tensile deformation behavior of an AISI 316LN stainless steel. <i>Transactions of the Indian Institute of Metals</i> , <b>2009</b> , 62, 41-48	1.2	10
8	Size effect on the lattice parameters of nanocrystalline anatase. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 19190	06.4	58
7	Effect of gas flow rates on the anatase-rutile transformation temperature of nanocrystalline TiO2 synthesised by chemical vapour synthesis. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2009</b> , 9, 5572-7	1.3	3
6	Microstructure and mechanical properties of Sc modified AlিIu alloy (AA2219) electron beam welds. <i>Science and Technology of Welding and Joining</i> , <b>2008</b> , 13, 415-421	3.7	12
5	Effect of process parameters on the chemical vapour synthesis of nanocrystalline titania. <i>Journal Physics D: Applied Physics</i> , <b>2008</b> , 41, 155313	3	8
4	Improvement of mechanical properties of aluminiumflopper alloy (AA2219) GTA welds by Sc addition. <i>Science and Technology of Welding and Joining</i> , <b>2008</b> , 13, 146-158	3.7	19

## LIST OF PUBLICATIONS

3	Synthesis, characterization and sintering of nanocrystalline titania powders produced by chemical vapour synthesis. <i>Journal Physics D: Applied Physics</i> , <b>2006</b> , 39, 2248-2254	3	31
2	Model for grain boundary sliding and its relevance to optimal structural superplasticity Part 5 DA unique numerical solution and its reliability. <i>Materials Science and Technology</i> , <b>1999</b> , 15, 673-682	1.5	8
1	A generic analysis for high-temperature power-law deformation: the case of linear In (strain rate)-In(stress) relationship. <i>Journal of Materials Science</i> , <b>1995</b> , 30, 5850-5866	4.3	7