

# Harshit Porwal

## List of Publications by Citations

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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.

48  
papers

2,314  
citations

25  
h-index

48  
g-index

48  
ext. papers

2,603  
ext. citations

6.1  
avg, IF

5.03  
L-index

#	Paper	IF	Citations
48	Solvent-exfoliated graphene at extremely high concentration. <i>Langmuir</i> , <b>2011</b> , 27, 9077-82	4	280
47	Size selection of dispersed, exfoliated graphene flakes by controlled centrifugation. <i>Carbon</i> , <b>2012</b> , 50, 470-475	10.4	240
46	Graphene reinforced alumina nano-composites. <i>Carbon</i> , <b>2013</b> , 64, 359-369	10.4	221
45	Review of graphene/ceramic matrix composites. <i>Advances in Applied Ceramics</i> , <b>2013</b> , 112, 443-454	2.3	211
44	Flash Spark Plasma Sintering (FSPS) of Pure ZrB <sub>2</sub> . <i>Journal of the American Ceramic Society</i> , <b>2014</b> , 97, 2405-2408	10.1	101
43	Improved adhesive strength and toughness of polyvinyl acetate glue on addition of small quantities of graphene. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 1423-8	9.5	91
42	Mechanical, electrical and thermal properties of in-situ exfoliated graphene/epoxy nanocomposites. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2017</b> , 95, 229-236	8.4	82
41	Flash Spark Plasma Sintering (FSPS) of SiC. <i>Journal of the American Ceramic Society</i> , <b>2016</b> , 99, 1534-1543	3.8	80
40	Tribological properties of silica/graphene nano-platelet composites. <i>Ceramics International</i> , <b>2014</b> , 40, 12067-12074	5.1	76
39	Joining of SiC by spark plasma sintering. <i>Journal of the European Ceramic Society</i> , <b>2014</b> , 34, 1681-1686	6	72
38	Highly transparent alumina obtained by low cost high pressure SPS. <i>Ceramics International</i> , <b>2013</b> , 39, 3243-3248	5.1	60
37	Processing and bioactivity of 45S5 Bioglass(®)-graphene nanoplatelets composites. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2014</b> , 25, 1403-13	4.5	47
36	In Situ Exfoliation of Graphene in Epoxy Resins: A Facile Strategy to Efficient and Large Scale Graphene Nanocomposites. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 24112-22	9.5	46
35	The effect of graphene-poly(methyl methacrylate) fibres on microbial growth. <i>Interface Focus</i> , <b>2018</b> , 8, 20170058	3.9	42
34	Toughened and machinable glass matrix composites reinforced with graphene and graphene-oxide nano platelets. <i>Science and Technology of Advanced Materials</i> , <b>2013</b> , 14, 055007	7.1	41
33	Ultra-high temperature spark plasma sintering of SiC. <i>Ceramics International</i> , <b>2015</b> , 41, 225-230	5.1	34
32	Effect of lateral size of graphene nano-sheets on the mechanical properties and machinability of alumina nano-composites. <i>Ceramics International</i> , <b>2016</b> , 42, 7533-7542	5.1	34

31	Flash spark plasma sintering of magnesium silicide stannide with improved thermoelectric properties. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 1514-1521	7.1	31
30	Microwave dielectric properties and infrared reflectivity spectra analysis of two novel low-firing AgCa <sub>2</sub> B <sub>2</sub> V <sub>3</sub> O <sub>12</sub> (B = Mg, Zn) ceramics with garnet structure. <i>Journal of the European Ceramic Society</i> , <b>2018</b> , 38, 4670-4676	6	30
29	In situ reduction of graphene oxide nanoplatelet during spark plasma sintering of a silica matrix composite. <i>Journal of the European Ceramic Society</i> , <b>2014</b> , 34, 3357-3364	6	30
28	Role of synthesis method on microstructure and mechanical properties of graphene/carbon nanotube toughened Al <sub>2</sub> O <sub>3</sub> nanocomposites. <i>Ceramics International</i> , <b>2015</b> , 41, 9813-9822	5.1	29
27	Toughening effect of multi-walled boron nitride nanotubes and their influence on the sintering behaviour of 3Y-TZP zirconia ceramics. <i>Journal of the European Ceramic Society</i> , <b>2014</b> , 34, 1829-1843	6	29
26	Low temperature spark plasma sintering of 45S5 Bioglass <sup>®</sup> . <i>Journal of Non-Crystalline Solids</i> , <b>2013</b> , 362, 25-29	3.9	28
25	Novel Preparation, Microstructure, and Properties of Polyacrylonitrile-Based Carbon Nanofiber-Graphene Nanoplatelet Materials. <i>ACS Omega</i> , <b>2016</b> , 1, 202-211	3.9	26
24	45S5 Bioglass <sup>®</sup> -MWCNT composite: processing and bioactivity. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2015</b> , 26, 199	4.5	25
23	Low-temperature sintering and thermal stability of Li <sub>2</sub> GeO <sub>3</sub> -based microwave dielectric ceramics with low permittivity. <i>Journal of the American Ceramic Society</i> , <b>2018</b> , 101, 4608-4614	3.8	25
22	Boron nitride nanotubes as a reinforcement for brittle matrices. <i>Journal of the European Ceramic Society</i> , <b>2014</b> , 34, 3339-3349	6	24
21	Boron nitride nanosheets reinforced glass matrix composites. <i>Advances in Applied Ceramics</i> , <b>2015</b> , 114, S26-S33	2.3	24
20	Universal Control on Pyroresistive Behavior of Flexible Self-Regulating Heating Devices. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1702253	15.6	23
19	Salt Templating with Pore Padding: Hierarchical Pore Tailoring towards Functionalised Porous Carbons. <i>ChemSusChem</i> , <b>2017</b> , 10, 199-209	8.3	21
18	Tailored pyroresistive performance and flexibility by introducing a secondary thermoplastic elastomeric phase into graphene nanoplatelet (GNP) filled polymer composites for self-regulating heating devices. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 2760-2768	7.1	21
17	Viral Filtration Using Carbon-Based Materials. <i>Medical Devices &amp; Sensors</i> , <b>2020</b> , 3, e10107	1.6	19
16	Effect of mixed fillers on positive temperature coefficient of conductive polymer composites. <i>Nanocomposites</i> , <b>2016</b> , 2, 58-64	3.4	19
15	Graphene nanoplatelets loaded polyurethane and phenolic resin fibres by combination of pressure and gyration. <i>Composites Science and Technology</i> , <b>2016</b> , 129, 173-182	8.6	19
14	Scratch behaviour of graphene alumina nanocomposites. <i>Advances in Applied Ceramics</i> , <b>2015</b> , 114, S34-S41	3.1	18

13	Ceramic composites from mesoporous silica coated multi-wall carbon nanotubes. <i>Microporous and Mesoporous Materials</i> , <b>2015</b> , 217, 159-166	5.3	15
12	Pyroresistivity in conductive polymer composites: a perspective on recent advances and new applications. <i>Polymer International</i> , <b>2019</b> , 68, 299-305	3.3	15
11	Polymer-derived SiC ceramics from polycarbosilane/boron mixtures densified by SPS. <i>Ceramics International</i> , <b>2014</b> , 40, 14493-14500	5.1	14
10	Enhanced Thermal and Electrical Properties of Polystyrene-Graphene Nanofibers via Electrospinning. <i>Journal of Nanomaterials</i> , <b>2016</b> , 2016, 1-8	3.2	13
9	Breaking the Nanoparticle Loading-Dispersion Dichotomy in Polymer Nanocomposites with the Art of Croissant-Making. <i>ACS Nano</i> , <b>2018</b> , 12, 9040-9050	16.7	12
8	Photocatalytic activity of 2D nanosheets of ferroelectric Dionāacobson compounds. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 6564-6568	13	9
7	The effect of conductive network on positive temperature coefficient behaviour in conductive polymer composites. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2020</b> , 139, 106074	8.4	9
6	A novel ultra-low temperature cofired Na <sub>2</sub> BiZn <sub>2</sub> V <sub>3</sub> O <sub>12</sub> ceramic and its chemical compatibility with metal electrodes. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2017</b> , 28, 1508-1513	2.1	7
5	MWCNT-coated alumina micro-platelets for nacre-like biomimetic composites. <i>Carbon</i> , <b>2019</b> , 145, 586-595	15.4	6
4	6.6 Ceramic Matrix Nanocomposites <b>2018</b> , 138-161		6
3	Understanding and quantification of grain growth mechanism in ZrO <sub>2</sub> -carbon nanotube composites. <i>Materials and Design</i> , <b>2017</b> , 133, 325-331	8.1	5
2	Microstructure of fibres pressure-spun from polyacrylonitrile/graphene oxide composite mixtures. <i>Composites Science and Technology</i> , <b>2020</b> , 197, 108214	8.6	3
1	Carbothermal/aluminothermic reduction nitridation synthesis of ZrN <sub>0.5</sub> BiAlON refractory composites from zircon and bauxite: a comparative study of the reduction effect of reducers. <i>Advances in Applied Ceramics</i> , <b>2017</b> , 116, 151-157	2.3	1