Harshit Porwal

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.

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	Microstructure of fibres pressure-spun from polyacrylonitrile–graphene oxide composite mixtures. *Composites Science and Technology*, **2020**, 197, 108214	8.6	3
47	Photocatalytic activity of 2D nanosheets of ferroelectric Dion–Jacobson compounds. *Journal of Materials Chemistry A*, **2020**, 8, 6564-6568	13	9
46	Viral Filtration Using Carbon-Based Materials. *Medical Devices & Sensors*, **2020**, 3, e10107	1.6	19
45	The effect of conductive network on positive temperature coefficient behaviour in conductive polymer composites. *Composites Part A: Applied Science and Manufacturing*, **2020**, 139, 106074	8.4	9
44	MWCNT-coated alumina micro-platelets for nacre-like biomimetic composites. *Carbon*, **2019**, 145, 586-595	10.4	6
43	Pyroresistivity in conductive polymer composites: a perspective on recent advances and new applications. *Polymer International*, **2019**, 68, 299-305	3.3	15
42	Tailored pyroresistive performance and flexibility by introducing a secondary thermoplastic elastomeric phase into graphene nanoplatelet (GNP) filled polymer composites for self-regulating heating devices. *Journal of Materials Chemistry C*, **2018**, 6, 2760-2768	7.1	21
41	Low-temperature sintering and thermal stability of Li2GeO3-based microwave dielectric ceramics with low permittivity. *Journal of the American Ceramic Society*, **2018**, 101, 4608-4614	3.8	25
40	The effect of graphene-poly(methyl methacrylate) fibres on microbial growth. *Interface Focus*, **2018**, 8, 20170058	3.9	42
39	Microwave dielectric properties and infrared reflectivity spectra analysis of two novel low-firing AgCa2B2V3O12 (B = Mg, Zn) ceramics with garnet structure. *Journal of the European Ceramic Society*, **2018**, 38, 4670-4676	6	30
38	Breaking the Nanoparticle Loading-Dispersion Dichotomy in Polymer Nanocomposites with the Art of Croissant-Making. *ACS Nano*, **2018**, 12, 9040-9050	16.7	12
37	6.6 Ceramic Matrix Nanocomposites **2018**, 138-161		6
36	Flash spark plasma sintering of magnesium silicide stannide with improved thermoelectric properties. *Journal of Materials Chemistry C*, **2017**, 5, 1514-1521	7.1	31
35	Carbothermal/aluminothermic reduction nitridation synthesis of ZrN–SiAlON refractory composites from zircon and bauxite: a comparative study of the reduction effect of reducers. *Advances in Applied Ceramics*, **2017**, 116, 151-157	2.3	1
34	Mechanical, electrical and thermal properties of in-situ exfoliated graphene/epoxy nanocomposites. *Composites Part A: Applied Science and Manufacturing*, **2017**, 95, 229-236	8.4	82
33	Salt Templating with Pore Padding: Hierarchical Pore Tailoring towards Functionalised Porous Carbons. *ChemSusChem*, **2017**, 10, 199-209	8.3	21
32	Universal Control on Pyroresistive Behavior of Flexible Self-Regulating Heating Devices. *Advanced Functional Materials*, **2017**, 27, 1702253	15.6	23

31	Understanding and quantification of grain growth mechanism in ZrO2-carbon nanotube composites. *Materials and Design*, **2017**, 133, 325-331	8.1	5
30	A novel ultra-low temperature cofired Na2BiZn2V3O12 ceramic and its chemical compatibility with metal electrodes. *Journal of Materials Science: Materials in Electronics*, **2017**, 28, 1508-1513	2.1	7
29	Effect of mixed fillers on positive temperature coefficient of conductive polymer composites. *Nanocomposites*, **2016**, 2, 58-64	3.4	19
28	In Situ Exfoliation of Graphene in Epoxy Resins: A Facile Strategy to Efficient and Large Scale Graphene Nanocomposites. *ACS Applied Materials & Interfaces*, **2016**, 8, 24112-22	9.5	46
27	Novel Preparation, Microstructure, and Properties of Polyacrylonitrile-Based Carbon Nanofiber-Graphene Nanoplatelet Materials. *ACS Omega*, **2016**, 1, 202-211	3.9	26
26	Flash Spark Plasma Sintering (FSPS) of □ and □SiC. *Journal of the American Ceramic Society*, **2016**, 99, 1534-1543	3.8	80
25	Effect of lateral size of graphene nano-sheets on the mechanical properties and machinability of alumina nano-composites. *Ceramics International*, **2016**, 42, 7533-7542	5.1	34
24	Enhanced Thermal and Electrical Properties of Polystyrene-Graphene Nanofibers via Electrospinning. *Journal of Nanomaterials*, **2016**, 2016, 1-8	3.2	13
23	Graphene nanoplatelets loaded polyurethane and phenolic resin fibres by combination of pressure and gyration. *Composites Science and Technology*, **2016**, 129, 173-182	8.6	19
22	Ceramic composites from mesoporous silica coated multi-wall carbon nanotubes. *Microporous and Mesoporous Materials*, **2015**, 217, 159-166	5.3	15
21	45S5 Bioglass(□)-MWCNT composite: processing and bioactivity. *Journal of Materials Science: Materials in Medicine*, **2015**, 26, 199	4.5	25
20	Role of synthesis method on microstructure and mechanical properties of graphene/carbon nanotube toughened Al2O3 nanocomposites. *Ceramics International*, **2015**, 41, 9813-9822	5.1	29
19	Ultra-high temperature spark plasma sintering of □SiC. *Ceramics International*, **2015**, 41, 225-230	5.1	34
18	Boron nitride nanosheets reinforced glass matrix composites. *Advances in Applied Ceramics*, **2015**, 114, S26-S33	2.3	24
17	Scratch behaviour of graphene alumina nanocomposites. *Advances in Applied Ceramics*, **2015**, 114, S34-S41	2.3	18
16	Toughening effect of multi-walled boron nitride nanotubes and their influence on the sintering behaviour of 3Y-TZP zirconia ceramics. *Journal of the European Ceramic Society*, **2014**, 34, 1829-1843	6	29
15	Processing and bioactivity of 45S5 Bioglass(□)-graphene nanoplatelets composites. *Journal of Materials Science: Materials in Medicine*, **2014**, 25, 1403-13	4.5	47
14	Boron nitride nanotubes as a reinforcement for brittle matrices. *Journal of the European Ceramic Society*, **2014**, 34, 3339-3349	6	24

13	Flash Spark Plasma Sintering (FSPS) of Pure ZrB2. *Journal of the American Ceramic Society*, **2014**, 97, 2405-2408	3.8	101
12	Polymer-derived SiC ceramics from polycarbosilane/boron mixtures densified by SPS. *Ceramics International*, **2014**, 40, 14493-14500	5.1	14
11	Tribological properties of silica graphene nano-platelet composites. *Ceramics International*, **2014**, 40, 12067-12074	5.1	76
10	In situ reduction of graphene oxide nanoplatelet during spark plasma sintering of a silica matrix composite. *Journal of the European Ceramic Society*, **2014**, 34, 3357-3364	6	30
9	Joining of SiC by spark plasma sintering. *Journal of the European Ceramic Society*, **2014**, 34, 1681-1686	6	72
8	Graphene reinforced alumina nano-composites. *Carbon*, **2013**, 64, 359-369	10.4	221
7	Low temperature spark plasma sintering of 45S5 Bioglass . *Journal of Non-Crystalline Solids*, **2013**, 362, 25-29	3.9	28
6	Review of graphene ceramic matrix composites. *Advances in Applied Ceramics*, **2013**, 112, 443-454	2.3	211
5	Highly transparent alumina obtained by low cost high pressure SPS. *Ceramics International*, **2013**, 39, 3243-3248	5.1	60
4	Improved adhesive strength and toughness of polyvinyl acetate glue on addition of small quantities of graphene. *ACS Applied Materials & Interfaces*, **2013**, 5, 1423-8	9.5	91
3	Toughened and machinable glass matrix composites reinforced with graphene and graphene-oxide nano platelets. *Science and Technology of Advanced Materials*, **2013**, 14, 055007	7.1	41
2	Size selection of dispersed, exfoliated graphene flakes by controlled centrifugation. *Carbon*, **2012**, 50, 470-475	10.4	240
1	Solvent-exfoliated graphene at extremely high concentration. *Langmuir*, **2011**, 27, 9077-82	4	280