

Kunal H Kate

List of Publications by Year in descending order

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papers

999
citations

516710

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454955

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30
all docs

30
docs citations

30
times ranked

1106
citing authors

#	ARTICLE	IF	CITATIONS
1	Additive manufacturing of natural fiber reinforced polymer composites: Processing and prospects. Composites Part B: Engineering, 2019, 174, 106956.	12.0	329
2	Effects of particle characteristics on the microstructure and mechanical properties of 17-4 PH stainless steel fabricated by laser-powder bed fusion. Powder Technology, 2018, 331, 192-203.	4.2	67
3	Printability studies of Ti-6Al-4V by metal fused filament fabrication (MF3). International Journal of Refractory Metals and Hard Materials, 2020, 91, 105249.	3.8	63
4	Nano-Silver Mediated Polymerization of Pyrrole: Synthesis and Gas Sensing Properties of Polypyrrole (PPy)/Ag Nano-Composite. Journal of Nanoscience and Nanotechnology, 2011, 11, 7863-7869.	0.9	49
5	A novel covalent approach to bio-conjugate silver coated single walled carbon nanotubes with antimicrobial peptide. Journal of Nanobiotechnology, 2016, 14, 58.	9.1	44
6	Feedstock properties and injection molding simulations of bimodal mixtures of nanoscale and microscale aluminum nitride. Ceramics International, 2013, 39, 6887-6897.	4.8	42
7	Rheological and thermal debinding properties of blended elemental Ti-6Al-4V powder injection molding feedstock. Powder Technology, 2017, 311, 357-363.	4.2	42
8	Predicting Powder-Polymer Mixture Properties for PIM Design. Critical Reviews in Solid State and Materials Sciences, 2014, 39, 197-214.	12.3	33
9	Factors affecting properties of Ti-6Al-4V alloy additive manufactured by metal fused filament fabrication. Powder Technology, 2021, 386, 9-19.	4.2	33
10	Estimating Powder-Polymer Material Properties Used in Design for Metal Fused Filament Fabrication (DfMF3). Jom, 2020, 72, 485-495.	1.9	30
11	Hydrodynamic Cavitation-Assisted Synthesis of Nanocalcite. International Journal of Chemical Engineering, 2010, 2010, 1-8.	2.4	24
12	Effect of binder composition on rheological behavior of PMN-PZT ceramic feedstock. Powder Technology, 2018, 330, 19-26.	4.2	23
13	Measurements of Powder-Polymer Mixture Properties and Their Use in Powder Injection Molding Simulations for Aluminum Nitride. Jom, 2012, 64, 1048-1058.	1.9	22
14	Synthesis of CaCO ₃ -P(MMA-BA) nanocomposite and its application in water based alkyd emulsion coating. Progress in Organic Coatings, 2011, 72, 632-637.	3.9	21
15	Powder Injection Molding of Ceramic Engine Components for Transportation. Jom, 2012, 64, 388-392.	1.9	17
16	Fabrication of micro-sized piezoelectric structure using powder injection molding with separated mold system. Ceramics International, 2018, 44, 12709-12716.	4.8	17
17	First report on fabrication and characterization of soybean hull fiber: polymer composite filaments for fused filament fabrication. Progress in Additive Manufacturing, 2021, 6, 39-52.	4.8	17
18	Microwave Formation of Polypyrrole/Ag Nano-Composite Based on Interfacial Polymerization by use of AgNO ₃ . Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry, 2011, 41, 199-202.	0.6	16

#	ARTICLE	IF	CITATIONS
19	Green micromachining of ceramics using tungsten carbide micro-endmills. Journal of Materials Processing Technology, 2019, 267, 268-279.	6.3	16
20	Fused filament fabrication 3D printing with low-melt alloys. Progress in Additive Manufacturing, 2018, 3, 51-63.	4.8	15
21	Green Synthesis of Silver Nano-Particles by Use of Edible Oils. Journal of Nanoscience and Nanotechnology, 2018, 18, 386-393.	0.9	12
22	Structure and thermal stability of cellulose nanocrystal/polysulfone nanocomposites. Materials Today Communications, 2020, 22, 100797.	1.9	11
23	Glycerol Mediated Low Temperature Synthesis of Nickel Nanoparticles by Solution Reduction Method. Journal of Nanoscience and Nanotechnology, 2011, 11, 5131-5136.	0.9	10
24	Simulations and injection molding experiments for aluminum nitride feedstock. Ceramics International, 2016, 42, 194-203.	4.8	10
25	Processing of hydroxyapatite and its composites using ceramic fused filament fabrication (CF3). Ceramics International, 2020, 46, 23922-23931.	4.8	10
26	Sono-Chemical Synthesis of ZnO Nano-Particles and Their Application in Hydrogen Sulphide Gas Sensing. Journal of Nanoscience and Nanotechnology, 2012, 12, 2791-2796.	0.9	7
27	Powder injection molding of silicon carbide: processing issues. Metal Powder Report, 2016, 71, 460-464.	0.1	7
28	Influence of feedstock properties on the injection molding of aluminum nitride. International Journal of Advanced Manufacturing Technology, 2017, 90, 2813-2826.	3.0	7
29	Controlling Thermoplastic Elastomer Optical Properties by Mechanical Processing. MRS Advances, 2019, 4, 1341-1347.	0.9	3
30	Thermal decomposition behavior and modeling of PMN-PZT ceramic feedstock with varying binder compositions. Materials Research Express, 2019, 6, 065316.	1.6	2