## Sundar V Atre

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/6919888/publications.pdf

Version: 2024-02-01

60 2,765 25
papers citations h-index

60 60 2766
all docs docs citations times ranked citing authors

52

g-index

#	Article	IF	CITATIONS
1	Self-Assembled Monolayers and Multilayers of Conjugated Thiols, .alpha.,.omegaDithiols, and Thioacetyl-Containing Adsorbates. Understanding Attachments between Potential Molecular Wires and Gold Surfaces. Journal of the American Chemical Society, 1995, 117, 9529-9534.	13.7	710
2	Endothelial Cell Growth and Protein Adsorption on Terminally Functionalized, Self-Assembled Monolayers of Alkanethiolates on Gold. Langmuir, 1997, 13, 3404-3413.	3.5	275
3	Chain Length Dependence of the Structure and Wetting Properties in Binary Composition Monolayers of OH- and CH3-Terminated Alkanethiolates on Gold. Langmuir, 1995, 11, 3882-3893.	3.5	154
4	Effect of powders and binders on material properties and molding parameters in iron and stainless steel powder injection molding process. Powder Technology, 2009, 193, 162-169.	4.2	107
5	Synthesis and post-processing of nanomaterials using microreaction technology. Journal of Nanoparticle Research, 2008, 10, 965-980.	1.9	99
6	Effect of process parameters on the Selective Laser Melting (SLM) of tungsten. International Journal of Refractory Metals and Hard Materials, 2018, 71, 315-319.	3.8	90
7	Effect of mixing on the rheology and particle characteristics of tungsten-based powder injection molding feedstock. Materials Science & Double Engineering A: Structural Materials: Properties, Microstructure and Processing, 2003, 356, 337-344.	<b>5.</b> 6	82
8	Effects of atomizing media and post processing on mechanical properties of 17-4 PH stainless steel manufactured via selective laser melting. Additive Manufacturing, 2018, 22, 127-137.	3.0	74
9	Review: Thermal Debinding Process in Particulate Materials Processing. Materials and Manufacturing Processes, 2012, 27, 103-118.	4.7	71
10	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
11	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
12	Effects of Powder Attributes and Laser Powder Bed Fusion (L-PBF) Process Conditions on the Densification and Mechanical Properties of 17-4 PH Stainless Steel. Jom, 2016, 68, 860-868.	1.9	61
13	Nano-enabled microtechnology: polysulfone nanocomposites incorporating cellulose nanocrystals. Cellulose, 2007, 14, 577-584.	4.9	59
14	Microstructure-property relationships of 420 stainless steel fabricated by laser-powder bed fusion. Powder Technology, 2019, 343, 738-746.	4.2	54
15	The effects of material attributes on powder–binder separation phenomena in powder injection molding. Powder Technology, 2013, 243, 79-84.	4.2	43
16	Feedstock properties and injection molding simulations of bimodal mixtures of nanoscale and microscale aluminum nitride. Ceramics International, 2013, 39, 6887-6897.	4.8	42
17	Rheological and thermal debinding properties of blended elemental Ti-6Al-4V powder injection molding feedstock. Powder Technology, 2017, 311, 357-363.	4.2	42
18	Synthesis of Crystalline, Nanometer-Scale, â^'(CH2)xâ^' Clusters and Films on Gold Surfaces. Journal of the American Chemical Society, 1997, 119, 4698-4711.	13.7	41

#	Article	IF	Citations
19	Master debinding curves for solvent extraction of binders in powder injection molding. Powder Technology, 2012, 228, 14-17.	4.2	36
20	The effects of nanoparticle addition on SiC and AlN powder–polymer mixtures: Packing and flow behavior. International Journal of Refractory Metals and Hard Materials, 2013, 36, 183-190.	3.8	36
21	Effects of powder characteristics and processing conditions on the corrosion performance of 17-4 PH stainless steel fabricated by laser-powder bed fusion. Progress in Additive Manufacturing, 2018, 3, 39-49.	4.8	35
22	Effect of Post Processing Heat Treatment Routes on Microstructure and Mechanical Property Evolution of Haynes 282 Ni-Based Superalloy Fabricated with Selective Laser Melting (SLM). Metals, 2020, 10, 629.	2.3	34
23	Predicting Powder-Polymer Mixture Properties for PIM Design. Critical Reviews in Solid State and Materials Sciences, 2014, 39, 197-214.	12.3	33
24	Factors affecting properties of Ti-6Al-4V alloy additive manufactured by metal fused filament fabrication. Powder Technology, 2021, 386, 9-19.	4.2	33
25	Effects of Nb and Mo on the microstructure and properties of 420 stainless steel processed by laser-powder bed fusion. Additive Manufacturing, 2019, 28, 682-691.	3.0	29
26	Review of Net Shape Fabrication of Thermally Conducting Ceramics. Materials and Manufacturing Processes, 2011, 26, 832-845.	4.7	27
27	Effect of binder composition on rheological behavior of PMN-PZT ceramic feedstock. Powder Technology, 2018, 330, 19-26.	4.2	23
28	Taguchi analysis on the effect of process parameters on densification during spark plasma sintering of HfB2-20SiC. International Journal of Refractory Metals and Hard Materials, 2012, 31, 293-296.	3.8	22
29	Effects of lubricant on green strength, compressibility and ejection of parts in die compaction process. Powder Technology, 2013, 233, 22-29.	4.2	22
30	The effects of nanoparticle addition on the sintering and properties of bimodal AlN. Ceramics International, 2012, 38, 6495-6499.	4.8	21
31	Microstructures, properties, and applications of laser sintered 17â€4PH stainless steel. Journal of the American Ceramic Society, 2019, 102, 5679-5690.	3.8	18
32	The effects of nanoparticle addition on the densification and properties of SiC. Ceramics International, 2012, 38, 5393-5399.	4.8	17
33	Fabrication of micro-sized piezoelectric structure using powder injection molding with separated mold system. Ceramics International, 2018, 44, 12709-12716.	4.8	17
34	Exploring Convergence of Snake-Skin-Inspired Texture Designs and Additive Manufacturing for Mechanical Traction. Procedia Manufacturing, 2019, 34, 640-646.	1.9	17
35	Development of master sintering curve for field-assisted sintering of HfB2–20SiC. Ceramics International, 2012, 38, 4369-4372.	4.8	16
36	Green micromachining of ceramics using tungsten carbide micro-endmills. Journal of Materials Processing Technology, 2019, 267, 268-279.	6.3	16

#	Article	IF	CITATIONS
37	Powder injection molding process design for UAV engine components using nanoscale silicon nitride powders. Ceramics International, 2014, 40, 893-900.	4.8	14
38	The effects of nanoparticle addition on binder removal from injection molded aluminum nitride. International Journal of Refractory Metals and Hard Materials, 2013, 36, 77-84.	3.8	13
39	Finite Element-Based Simulation of Metal Fused Filament Fabrication Process: Distortion Prediction and Experimental Verification. Journal of Materials Engineering and Performance, 2021, 30, 5135-5149.	2.5	13
40	Bending behavior of 3D printed mechanically robust tubular lattice metamaterials. Additive Manufacturing, 2022, 50, 102565.	3.0	13
41	Synthesis of Nanoparticles in High Temperature Ceramic Microreactors: Design, Fabrication and Testing. International Journal of Applied Ceramic Technology, 2009, 6, 410-419.	2.1	12
42	Imbalance filling of multi-cavity tooling during powder injection molding. Powder Technology, 2014, 257, 124-131.	4.2	12
43	Water Atomized 17-4 PH Stainless Steel Powder as a Cheaper Alternative Powder Feedstock for Selective Laser Melting. Materials Science Forum, 0, 941, 698-703.	0.3	11
44	Structure and thermal stability of cellulose nanocrystal/polysulfone nanocomposites. Materials Today Communications, 2020, 22, 100797.	1.9	11
45	Simulations and injection molding experiments for aluminum nitride feedstock. Ceramics International, 2016, 42, 194-203.	4.8	10
46	Experimentation and analysis of powder injection molded Ti10Nb10Zr alloy: a promising candidate for electrochemical and biomedical application. Journal of Materials Research and Technology, 2019, 8, 5233-5245.	5.8	10
47	Process Sensitivity and Significant Parameters Investigation in Metal Fused Filament Fabrication of Ti-6Al-4V. Journal of Materials Engineering and Performance, 2021, 30, 5118-5134.	2.5	10
48	Powder injection molding of a mullite–zirconia composite. Journal of Materials Research and Technology, 2013, 2, 263-268.	5.8	9
49	The effects of nanoparticle addition on binder removal from injection molded silicon carbide. Ceramics International, 2014, 40, 13861-13868.	4.8	8
50	Powder injection molding of silicon carbide: processing issues. Metal Powder Report, 2016, 71, 460-464.	0.1	7
51	Influence of feedstock properties on the injection molding of aluminum nitride. International Journal of Advanced Manufacturing Technology, 2017, 90, 2813-2826.	3.0	7
52	Studies on the thermal stability and degradation kinetics of Pd/PC nanocomposites. Journal of Applied Polymer Science, 2010, 118, 3602-3611.	2.6	6
53	Robust, Functionalizable, Nanometer-Thick Poly(acrylic acid) Films Spontaneously Assembled on Oxidized Aluminum Substrates: Structures and Chemical Properties. Langmuir, 2011, 27, 3638-3653.	3.5	6
54	Sintering Characteristics of a Powder Injection Molded Ceria-Stabilized Zirconia–Mullite Composite. Materials and Manufacturing Processes, 2015, 30, 616-623.	4.7	3

#	Article	IF	CITATIONS
55	Metal matrix composites for fabricating tooling. International Journal of Refractory Metals and Hard Materials, 2020, 87, 105169.	3.8	2
56	Laser Powder Bed Fusion., 2020,, 209-219.		2
57	Metallic nanostructures in a polymer matrix and substrate fabrication and structural characterization. Applied Physics A: Materials Science and Processing, 2011, 103, 1117-1123.	2.3	0
58	Microstructural Development of Green Micro-Machined, Injection-Molded Silicon Carbide. Microscopy and Microanalysis, 2016, 22, 1818-1819.	0.4	0
59	Effects of lubricant and part geometry on the ejection characteristics during die compaction. Powder Metallurgy, 2017, 60, 337-344.	1.7	O
60	Kinetics of thermal dewaxing of injectionâ€molded silicon carbide. International Journal of Ceramic Engineering & Science, 2019, 1, 85-91.	1.2	0