

Siddhartha Roy

List of Publications by Citations

Source: <https://exaly.com/author-pdf/7156261/siddhartha-roy-publications-by-citations.pdf>

Version: 2022-12-02

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

31
papers

448
citations

12
h-index

20
g-index

33
ext. papers

527
ext. citations

4.5
avg, IF

3.75
L-index

#	Paper	IF	Citations
31	Damage evolution and domain-level anisotropy in metal/ceramic composites exhibiting lamellar microstructures. <i>Acta Materialia</i> , 2010 , 58, 2300-2312	8.3	57
30	Metal/ceramic composites from freeze-cast ceramic preforms: Domain structure and elastic properties. <i>Composites Science and Technology</i> , 2008 , 68, 1136-1143	8.5	53
29	Internal load transfer in a metal matrix composite with a three-dimensional interpenetrating structure. <i>Acta Materialia</i> , 2011 , 59, 1424-1435	8.3	51
28	Complete determination of elastic moduli of interpenetrating metal/ceramic composites using ultrasonic techniques and micromechanical modelling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 8226-8235	5.2	42
27	Elastic constants of metal/ceramic composites with lamellar microstructures: Finite element modelling and ultrasonic experiments. <i>Composites Science and Technology</i> , 2009 , 69, 620-626	8.5	39
26	In situ Study of Internal Load Transfer in a Novel Metal/Ceramic Composite Exhibiting Lamellar Microstructure Using Energy Dispersive Synchrotron X-ray Diffraction. <i>Advanced Engineering Materials</i> , 2009 , 11, 471-477	3.4	31
25	Numerical study of internal load transfer in metal/ceramic composites based on freeze-cast ceramic preforms and experimental validation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 585, 10-16	5.2	22
24	Processing and Elastic Property Characterization of Porous SiC Preform for Interpenetrating Metal/Ceramic Composites. <i>Journal of the American Ceramic Society</i> , 2012 , 95, 3078-3083	3.8	21
23	Internal load transfer and damage evolution in a 3D interpenetrating metal/ceramic composite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 551, 272-279	5.2	20
22	Analysis of the elastic properties of an interpenetrating AlSi12Al2O3 composite using ultrasound phase spectroscopy. <i>Composites Science and Technology</i> , 2011 , 71, 962-968	8.5	19
21	Processing and characterization of elastic and thermal expansion behaviour of interpenetrating Al12Si/alumina composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 743, 339-348	5.2	16
20	Internal load transfer in an interpenetrating metal/ceramic composite material studied using energy dispersive synchrotron X-ray diffraction. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 753, 247-252	5.2	12
19	Anisotropic thermal expansion behavior of an interpenetrating metal/ceramic composite. <i>Thermochimica Acta</i> , 2020 , 684, 178488	2.9	11
18	Mechanical properties of cellular solids produced from hollow stainless steel spheres. <i>Journal of Materials Science</i> , 2011 , 46, 5519-5526	4.2	8
17	Characterization of Elastic Properties in Porous Silicon Carbide Preforms Fabricated Using Polymer Waxes as Pore Formers. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 2269-2275	3.8	8
16	Developing a hybrid AlSiC-graphite functionally graded composite material for optimum composition and mechanical properties. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 805, 140625	5.2	8
15	Damage evolution in freeze cast metal/ceramic composites exhibiting lamellar microstructures. <i>Frattura Ed Integrita Strutturale</i> , 2015 , 9, 134-142	0.9	5

14	Inelastic behavior of the single domain of metal-ceramic composites with lamellar microstructure. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2011 , 11, 285-286	0.2	4
13	Residual stresses in novel metal/ceramic composites exhibiting a lamellar microstructure. <i>Powder Diffraction</i> , 2009 , 24, S59-S64	1.6	4
12	Review on development of metal/ceramic interpenetrating phase composites and critical analysis of their properties. <i>Ceramics International</i> , 2021 , 48, 1451-1451	5	4
11	Effect of Phase Architecture on the Thermal Expansion Behavior of Interpenetrating Metal/Ceramic Composites. <i>Ceramic Transactions</i> , 33-43	0.1	4
10	Load Partitioning Study in a 3D Interpenetrating AlSi12/Al ₂ O ₃ Metal/Ceramic Composite. <i>Materials Science Forum</i> , 2013 , 772, 103-107	0.4	2
9	Effect of ceramic preform freeze-casting temperature and melt infiltration technique on the mechanical properties of a lamellar metal/ceramic composite. <i>Journal of Composite Materials</i> , 2020 , 54, 2001-2011	2.7	2
8	A Critical Assessment of the Processing Parameters Yielding an Optimum Combination of Mechanical Properties in Cast Al-B ₄ C Composites. <i>Transactions of the Indian Institute of Metals</i> , 2021 , 74, 1279-1294	1.2	2
7	Processing and characterization of Al-Si alloy/SiC foam interpenetrating phase composite. <i>Materials Today: Proceedings</i> , 2021 , 44, 2930-2933	1.4	2
6	Material Parameter Identification of Interpenetrating Metal-Ceramic Composites. <i>Key Engineering Materials</i> , 2009 , 417-418, 53-56	0.4	1
5	Review on study of internal load transfer in metal matrix composites using diffraction techniques. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 840, 142973	5.2	0
4	Review on developments of bulk functionally graded composite materials. <i>International Materials Reviews</i> , 1-67	15.9	0
3	Study of the elastic properties of porous copper fabricated via the lost carbonate sintering process. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 836, 142713	5.2	0
2	Mechanical properties of innovative metal/ceramic composites based on freeze-cast ceramic preforms 2012 , 213-220		
1	Effect of Phase architecture on mechanical properties of interpenetrating metal/ceramic composites 2014 , 77-86		