

# Tapabrata Maity

## List of Publications by Citations

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28

papers

554

citations

13

h-index

23

g-index

29

ext. papers

688

ext. citations

4.1

avg, IF

4.14

L-index

#	Paper	IF	Citations
28	Is the energy density a reliable parameter for materials synthesis by selective laser melting?. <i>Materials Research Letters</i> , <b>2017</b> , 5, 386-390	7.4	182
27	Anisotropy in local microstructure Does it affect the tensile properties of the SLM samples?. <i>Manufacturing Letters</i> , <b>2018</b> , 15, 33-37	4.5	37
26	Influence of severe straining and strain rate on the evolution of dislocation structures during micro-/nanoindentation in high entropy lamellar eutectics. <i>International Journal of Plasticity</i> , <b>2018</b> , 109, 121-136	7.6	31
25	Mechanism of lamellae deformation and phase rearrangement in ultrafine $\text{Ti}/\text{FeTi}$ eutectic composites. <i>Acta Materialia</i> , <b>2015</b> , 97, 170-179	8.4	30
24	Friction welding of selective laser melted Ti6Al4V parts. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2017</b> , 704, 66-71	5.3	29
23	Deformation mechanisms to ameliorate the mechanical properties of novel TRIP/TWIP Co-Cr-Mo-(Cu) ultrafine eutectic alloys. <i>Scientific Reports</i> , <b>2017</b> , 7, 39959	4.9	24
22	Plastic deformation mechanisms in severely strained eutectic high entropy composites explained via strain rate sensitivity and activation volume. <i>Composites Part B: Engineering</i> , <b>2018</b> , 150, 7-13	10	23
21	High strength NiZr(Al) nanoeutectic composites with large plasticity. <i>Intermetallics</i> , <b>2015</b> , 63, 51-58	3.5	22
20	Microstructure and strength of nano-/ultrafine-grained carbon nanotube-reinforced titanium composites processed by high-pressure torsion. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2018</b> , 722, 122-128	5.3	22
19	Cooperative deformation behavior between the shear band and boundary sliding of an Al-based nanostructure-dendrite composite. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2018</b> , 735, 81-88	5.3	19
18	Origin of plasticity in ultrafine lamellar Ti-Fe-(Sn) composites. <i>AIP Advances</i> , <b>2012</b> , 2, 032175	1.5	19
17	Mechanical and Tribological Properties of Al <sub>2</sub> O <sub>3</sub> -TiC Composite Fabricated by Spark Plasma Sintering Process with Metallic (Ni, Nb) Binders. <i>Metals</i> , <b>2018</b> , 8, 50	2.3	17
16	Microscopic mechanism on the evolution of plasticity in nanolamellar $\text{Ni}/\text{Ni}_5\text{Zr}$ eutectic composites. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2016</b> , 666, 72-79	5.3	13
15	High pressure torsion induced lowering of Young's modulus in high strength TNZT alloy for bio-implant applications. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2020</b> , 108, 103839	4.1	11
14	Microstructure and size effect in ultrafine $(\text{Ti}_{0.705}\text{Fe}_{0.295})_{100}\text{Sn}_x$ ( $0 \leq x \leq 4$ at.%) composites. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 585, 54-62	5.7	10
13	Influence of Nb on the Microstructure and Fracture Toughness of (ZrFe)Nb Nano-Eutectic Composites. <i>Materials</i> , <b>2018</b> , 11,	3.5	10
12	Optimizing mechanical properties of FeCoNiSiB high entropy alloy by inducing hypoeutectic to quasi-duplex microstructural transition. <i>Scientific Reports</i> , <b>2019</b> , 9, 360	4.9	9

11	Friction welding of electron beam melted Ti-6Al-4V. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2019</b> , 761, 138045	5.3	9
10	Martensitic Transformation and Plastic Deformation of TiCuNiZr-Based Bulk Metallic Glass Composites. <i>Metals</i> , <b>2018</b> , 8, 196	2.3	9
9	Tuning of nanostructure by the control of twin density, dislocation density, crystallite size, and stacking fault energy in Cu <sub>100-x</sub> Zn <sub>x</sub> (0 ≤ x ≤ 30 wt%). <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2016</b> , 672, 203-215	5.3	5
8	Strengthening Effects in Nano-/Ultrafine-Grained Carbon Nanotube Reinforced-Titanium Composites Investigated by Finite Element Modeling. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2018</b> , 49, 6469-6478	2.3	5
7	Mechanism of high-pressure torsion-induced shear banding and lamellar thickness saturation in Co <sub>0.7</sub> Cr <sub>0.3</sub> Ni <sub>0.7</sub> Nb high-entropy composites. <i>Journal of Materials Research</i> , <b>2019</b> , 34, 2672-2682	2.5	4
6	Nanoeutectic Composites: Processing, Microstructure and Properties. <i>Transactions of the Indian Institute of Metals</i> , <b>2015</b> , 68, 1199-1205	1.2	4
5	Co-Cr-Mo-C-B metallic glasses with wide supercooled liquid region obtained by systematic adjustment of the metalloids ratio. <i>Journal of Non-Crystalline Solids</i> , <b>2019</b> , 505, 310-319	3.9	4
4	Microstructures, Martensitic Transformation, and Mechanical Behavior of Rapidly Solidified Ti-Ni-Hf and Ti-Ni-Si Shape Memory Alloys. <i>Journal of Materials Engineering and Performance</i> , <b>2018</b> , 27, 1005-1015 <sup>1.6</sup>	1.6	3
3	Influence of Substrate Surface Finish Metallurgy on Lead-Free Solder Joint Microstructure with Implications for Board-Level Reliability. <i>Journal of Electronic Materials</i> , <b>2020</b> , 49, 3251-3258	1.9	2
2	A Few Aspects on the Processing and Deformation Behavior of Advanced Eutectic Alloys. <i>Transactions of the Indian Institute of Metals</i> , <b>2012</b> , 65, 571-576	1.2	1
1	High-entropy eutectic composites with high strength and low Young's modulus. <i>Material Design and Processing Communications</i> , <b>2020</b> , 3, e211	0.9	