

# Tapabrata Maity

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/3652347/tapabrata-maity-publications-by-year.pdf>

**Version:** 2024-04-20

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.

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	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	
27	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
26	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
25	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
24	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
23	Mechanism of high-pressure torsion-induced shear banding and lamellar thickness saturation in CoCrFeNiNb high-entropy composites. <i>Journal of Materials Research</i> , <b>2019</b> , 34, 2672-2682	2.5	4
22	Co-Cr-Mo-C-B metallic glasses with wide supercooled liquid region obtained by systematic adjustment of the metalloid ratio. <i>Journal of Non-Crystalline Solids</i> , <b>2019</b> , 505, 310-319	3.9	4
21	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
20	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	1.6	3
19	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
18	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
17	Martensitic Transformation and Plastic Deformation of TiCuNiZr-Based Bulk Metallic Glass Composites. <i>Metals</i> , <b>2018</b> , 8, 196	2.3	9
16	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
15	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
14	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
13	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
12	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

11	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
10	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
9	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
8	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
7	Tuning of nanostructure by the control of twin density, dislocation density, crystallite size, and stacking fault energy in $\text{Cu}_{100-x}\text{Zn}_x$ ( $0 \leq x \leq 80$ wt%). <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2016</b> , 672, 203-215	5.3	5
6	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
5	High strength $\text{NiZr}(\text{Al})$ nanoeutectic composites with large plasticity. <i>Intermetallics</i> , <b>2015</b> , 63, 51-58	3.5	22
4	Nanoeutectic Composites: Processing, Microstructure and Properties. <i>Transactions of the Indian Institute of Metals</i> , <b>2015</b> , 68, 1199-1205	1.2	4
3	Microstructure and size effect in ultrafine $(\text{Ti}_{0.705}\text{Fe}_{0.295})_{100-x}\text{Sn}_x$ ( $0 \leq x \leq 4$ at.%) composites. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 585, 54-62	5.7	10
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	Origin of plasticity in ultrafine lamellar Ti-Fe-(Sn) composites. <i>AIP Advances</i> , <b>2012</b> , 2, 032175	1.5	19