Aniruddha Biswas

List of Publications by Year
in descending order

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17	563	840776 11	940533 16
papers	citations	h-index	g-index

17	17	17	646
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Precipitates in Alâ€“Cu alloys revisited: Atom-probe tomographic experiments and first-principles calculations of compositional evolution and interfacial segregation. Acta Materialia, 2011, 59, 6187-6204.	7.9	206
2	Compositional evolution of Q-phase precipitates in an aluminum alloy. Acta Materialia, 2014, 75, 322-336.	7.9	83
3	Simultaneous Segregation at Coherent and Semicoherent Heterophase Interfaces. Physical Review Letters, 2010, 105, 076102.	7.8	80
4	Giant magnetocaloric effect from reverse martensitic transformation in Niâ€“Mnâ€“Gaâ€“Cu ferromagnetic shape memory alloys. Journal of Alloys and Compounds, 2016, 670, 281-288.	5.5	40
5	Hot deformation behavior of Niâ€“Feâ€“Ga-based ferromagnetic shape memory alloy â€“ A study using processing map. Intermetallics, 2014, 54, 69-78.	3.9	32
6	Temporal evolution of coherent precipitates in an aluminum alloy W319: A correlative anisotropic small angle X-ray scattering, transmission electron microscopy and atom-probe tomography study. Acta Materialia, 2016, 116, 219-230.	7.9	21
7	Neutron diffraction evidence for kinetic arrest of first order magneto-structural phase transitions in some functional magnetic materials. Journal of Physics Condensed Matter, 2013, 25, 496011.	1.8	20
8	Effect of partial substitution of Fe by Mn in Ni55Fe19Ga26 on its microstructure and magnetic properties. Journal of Alloys and Compounds, 2014, 586, 515-523.	5.5	19
9	Deformation studies of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" display="inline" overflow="scroll"><mml:msub><mml:mrow><mml:mstyle mathvariant="normal"><mml:mi>Ni</mml:mi></mml:mstyle></mml:mrow><mml:mrow><mml:mn>55</mml:mn></mml:mrow></mml:msub><mml:msub><mml:mrow><mml:mstyle mathvariant="normal"><mml:mi>Fe</mml:mi></mml:mstyle></mml:mrow><mml:mrow><mml:mn>19</mml:mn></mml:mrow></mml:msub><mml:msub><mml:mrow><mml:mstyle mathvariant="normal"><mml:mi>Ga</mml:mi></mml:mstyle></mml:mrow><mml:mrow><mml:mn>26</mml:mn></mml:mrow></mml:msub></mml:math> Physics Procedia, 2010, 10, 105-110.	1.2	15
10	Revisiting Temporal Evolution of Cu-Rich Precipitates in Feâ€“Cu Alloy: Correlative Small Angle Neutron Scattering and Atom-Probe Tomography Studies. Microscopy and Microanalysis, 2019, 25, 840-848.	0.4	11
11	Magnetic ordering of the martensite phase in Niâ€“Coâ€“Mnâ€“Sn-based ferromagnetic shape memory alloys. Journal of Physics Condensed Matter, 2020, 32, 115801.	1.8	11
12	Delamination of Pearlitic Steel Wires: The Defining Role of Prior-Drawing Microstructure. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 2037-2047.	2.2	9
13	Quantitative evaluation of spinodal decomposition in thermally aged binary Fe-35 at.% Cr alloys by correlative atom probe tomography and small angle neutron scattering analyses. Materialia, 2021, 15, 101014.	2.7	6
14	Phenomenal Effect of Stable (Ti, Mo)C Nano-Sized Precipitates in Retarding the Recrystallization and Grain Growth in High-Strength Ferritic Steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2022, 53, 689-705.	2.2	5
15	On the Competitive Substitutional Partitioning During Nano-pearlitic Transformation in Multicomponent Steels. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2022, 53, 1806-1820.	2.2	3
16	A Combinatorial Approach to Reliable Quantitative Analysis of Small Nano-Sized Precipitates: A Case Study with Î±â€² Precipitates in Feâ€“20 at% Cr Alloy. Microscopy and Microanalysis, 2022, 28, 1370-1384.	0.4	2
17	Phenomenal Effect of Stable (Ti, Mo)C Nano-Sized Precipitates in Retarding the Recrystallization and Grain Growth in High-Strength Ferritic Steel. SSRN Electronic Journal, 0, , .	0.4	0