

# Ashok Kumar Mondal

## List of Publications by Year in descending order

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Version: 2024-02-01

30  
papers

688  
citations

516710

16  
h-index

552781

26  
g-index

30  
all docs

30  
docs citations

30  
times ranked

584  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of laser surface treatment on corrosion and wear resistance of ACM720 Mg alloy. Surface and Coatings Technology, 2008, 202, 3187-3198.	4.8	95
2	Dry sliding wear behaviour of magnesium alloy based hybrid composites in the longitudinal direction. Wear, 2009, 267, 458-466.	3.1	85
3	Laser surface cladding of MRI 153M magnesium alloy with (Al+Al <sub>2</sub> O <sub>3</sub> ). Surface and Coatings Technology, 2009, 203, 2292-2299.	4.8	60
4	Wear behaviour of AE42+20% saffil Mg-MMC. Tribology International, 2007, 40, 290-296.	5.9	54
5	Microstructure and impression creep characteristics of squeeze-cast AZ91 magnesium alloy containing Ca and/or Bi. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 744, 691-703.	5.6	37
6	Ratcheting fatigue behaviour of 42CrMo4 steel under different heat treatment conditions. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 679, 66-74.	5.6	34
7	Individual and combined additions of calcium and antimony on microstructure and mechanical properties of squeeze-cast AZ91D magnesium alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 626, 186-194.	5.6	31
8	Impression creep behaviour of magnesium alloy-based hybrid composites in the longitudinal direction. Composites Science and Technology, 2008, 68, 3251-3258.	7.8	25
9	Interrupted creep behaviour of Mg alloys developed for powertrain applications. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 2289-2296.	5.6	24
10	On the role of dislocation characters influencing ratcheting deformation of austenitic stainless steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 660, 47-51.	5.6	21
11	The influence of silane and silane-PMMA coatings on the in vitro biodegradation behavior of AE42 magnesium alloy for cardiovascular stent applications. RSC Advances, 2016, 6, 107344-107354.	3.6	20
12	Influence of additions of Sb and/or Sr on microstructure and tensile creep behaviour of squeeze-cast AZ91D Mg alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 683, 37-45.	5.6	19
13	Corrosion behaviour of creep-resistant AE42 magnesium alloy-based hybrid composites developed for powertrain applications. Materials and Corrosion - Werkstoffe Und Korrosion, 2015, 66, 1150-1158.	1.5	18
14	Impression creep behaviour of squeeze-cast Ca and Sb added AZ91 magnesium alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 673, 332-345.	5.6	18
15	Improved corrosion response of squeeze-cast AZ91 magnesium alloy with calcium and bismuth additions. Journal of Alloys and Compounds, 2021, 873, 159600.	5.5	18
16	Analysing hysteresis and residual strains in thermal cycling curves of short fibre reinforced Mg-MMCs. Composites Science and Technology, 2004, 64, 1179-1189.	7.8	17
17	Impression creep behaviour of magnesium alloy-based hybrid composites in the transverse direction. Composites Science and Technology, 2009, 69, 1592-1598.	7.8	17
18	Correlation of microstructure and creep behaviour of MRI230D Mg alloy developed by two different casting technologies. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 631, 45-51.	5.6	17

#	ARTICLE	IF	CITATIONS
19	Effect of Deep Cryogenic Treatment on Microstructure and Properties of AE42 Mg Alloy. Journal of Materials Engineering and Performance, 2016, 25, 3590-3598.	2.5	14
20	Correlation of Microstructure and Electrochemical Corrosion Behavior of Squeeze-Cast Ca and Sb Added AZ91 Mg Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 5106-5121.	2.2	13
21	Ratcheting life prediction of quenched&tempers 42CrMo4 steel. Journal of Materials Science, 2019, 54, 11703-11712.	3.7	12
22	On the comparative assessment of ratcheting-induced dislocation density in 42CrMo4 steel by X-ray diffraction profile analysis and hardness measurement. Philosophical Magazine, 2018, 98, 2637-2656.	1.6	10
23	Enhancement of Tensile Properties of AZ91&Ca&Sb Magnesium Alloy with SiC Nanoparticles Additions. Metals and Materials International, 2021, 27, 3796-3809.	3.4	9
24	Effect of SiC nanoparticles on the wear behaviour of squeeze-cast AZ91&2.0Ca&0.3Sb alloy. Materials Science and Technology, 2019, 35, 1678-1689.	1.6	6
25	Damage Assessment of A356 Al Alloy Under Ratcheting&Creep Interaction. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 2877-2885.	2.2	5
26	Dry Sliding Wear and Corrosion Behaviour of Al-Based Hybrid Composites Reinforced with Micro-Tip and Micro/Nano-Al2O3p. Transactions of the Indian Institute of Metals, 2016, 69, 1155-1167.	1.5	3
27	Effect of temperature and applied load on sliding wear behaviour of AZ91D magnesium alloy. Materials Today: Proceedings, 2020, 26, 1136-1139.	1.8	3
28	An analysis of microstructure and impression creep response of squeeze-cast AZ91&xBi&ySr alloys. Materials Science and Technology, 2020, 36, 731-742.	1.6	2
29	Effect of pre-strain on ratcheting behavior of A668 Class D steel. IOP Conference Series: Materials Science and Engineering, 2016, 115, 012037.	0.6	1
30	Influence of Ca+Bi on tensile and strain hardening behaviour of AZ91 alloy. Materials Science and Technology, 2022, 38, 377-389.	1.6	0