

# Ashok Kumar Mondal

## List of Publications by Year in descending order

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30  
papers

688  
citations

586496

16  
h-index

620720

26  
g-index

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all docs

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docs citations

30  
times ranked

637  
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of Ca+Bi on tensile and strain hardening behaviour of AZ91 alloy. <i>Materials Science and Technology</i> , 2022, 38, 377-389.	0.8	0
2	Enhancement of Tensile Properties of AZ91â€“Caâ€“Sb Magnesium Alloy with SiC Nanoparticles Additions. <i>Metals and Materials International</i> , 2021, 27, 3796-3809.	1.8	9
3	Improved corrosion response of squeeze-cast AZ91 magnesium alloy with calcium and bismuth additions. <i>Journal of Alloys and Compounds</i> , 2021, 873, 159600.	2.8	18
4	Effect of temperature and applied load on sliding wear behaviour of AZ91D magnesium alloy. <i>Materials Today: Proceedings</i> , 2020, 26, 1136-1139.	0.9	3
5	An analysis of microstructure and impression creep response of squeeze-cast AZ91â€“xBiâ€“ySr alloys. <i>Materials Science and Technology</i> , 2020, 36, 731-742.	0.8	2
6	Effect of SiC nanoparticles on the wear behaviour of squeeze-cast AZ91â€“2.0Caâ€“0.3Sb alloy. <i>Materials Science and Technology</i> , 2019, 35, 1678-1689.	0.8	6
7	Ratcheting life prediction of quenchedâ€“tempered 42CrMo4 steel. <i>Journal of Materials Science</i> , 2019, 54, 11703-11712.	1.7	12
8	Microstructure and impression creep characteristics of squeeze-cast AZ91 magnesium alloy containing Ca and/or Bi. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 744, 691-703.	2.6	37
9	On the comparative assessment of ratcheting-induced dislocation density in 42CrMo4 steel by X-ray diffraction profile analysis and hardness measurement. <i>Philosophical Magazine</i> , 2018, 98, 2637-2656.	0.7	10
10	Damage Assessment of A356 Al Alloy Under Ratchetingâ€“Creep Interaction. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017, 48, 2877-2885.	1.1	5
11	Influence of additions of Sb and/or Sr on microstructure and tensile creep behaviour of squeeze-cast AZ91D Mg alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 683, 37-45.	2.6	19
12	Correlation of Microstructure and Electrochemical Corrosion Behavior of Squeeze-Cast Ca and Sb Added AZ91 Mg Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017, 48, 5106-5121.	1.1	13
13	Ratcheting fatigue behaviour of 42CrMo4 steel under different heat treatment conditions. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 679, 66-74.	2.6	34
14	Effect of pre-strain on ratcheting behavior of A668 Class D steel. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016, 115, 012037.	0.3	1
15	On the role of dislocation characters influencing ratcheting deformation of austenitic stainless steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 660, 47-51.	2.6	21
16	Effect of Deep Cryogenic Treatment on Microstructure and Properties of AE42 Mg Alloy. <i>Journal of Materials Engineering and Performance</i> , 2016, 25, 3590-3598.	1.2	14
17	Impression creep behaviour of squeeze-cast Ca and Sb added AZ91 magnesium alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 673, 332-345.	2.6	18
18	The influence of silane and silaneâ€“PMMA coatings on the in vitro biodegradation behavior of AE42 magnesium alloy for cardiovascular stent applications. <i>RSC Advances</i> , 2016, 6, 107344-107354.	1.7	20

#	ARTICLE	IF	CITATIONS
19	Dry Sliding Wear and Corrosion Behaviour of Al-Based Hybrid Composites Reinforced with Micro-Tip and Micro/Nano-Al <sub>2</sub> O <sub>3</sub> p. Transactions of the Indian Institute of Metals, 2016, 69, 1155-1167.	0.7	3
20	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.	0.8	18
21	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.	2.6	31
22	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.	2.6	17
23	Interrupted creep behaviour of Mg alloys developed for powertrain applications. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 2289-2296.	2.6	24
24	Impression creep behaviour of magnesium alloy-based hybrid composites in the transverse direction. Composites Science and Technology, 2009, 69, 1592-1598.	3.8	17
25	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.	2.2	60
26	Dry sliding wear behaviour of magnesium alloy based hybrid composites in the longitudinal direction. Wear, 2009, 267, 458-466.	1.5	85
27	Effect of laser surface treatment on corrosion and wear resistance of ACM720 Mg alloy. Surface and Coatings Technology, 2008, 202, 3187-3198.	2.2	95
28	Impression creep behaviour of magnesium alloy-based hybrid composites in the longitudinal direction. Composites Science and Technology, 2008, 68, 3251-3258.	3.8	25
29	Wear behaviour of AE42+20% saffil Mg-MMC. Tribology International, 2007, 40, 290-296.	3.0	54
30	Analysing hysteresis and residual strains in thermal cycling curves of short fibre reinforced Mg-MMCs. Composites Science and Technology, 2004, 64, 1179-1189.	3.8	17