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 Expertise Information
 Experience
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 Publications

 Profile Progress

Personal	100%
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 Academic Identity

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	Orcid Id 0000-0002-7624-0022 (http://www.orcid.org/0000-0002-7624-0022)			
	Scopus Id 21734466800 (http://www.scopus.com/authid/detail.url?authorId=21734466800)			
	Researcher Id KHD-7104-2024 (http://www.researcherid.com/rid/KHD-7104-2024)			
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 16
ARTICLES

 20
OTHERS

 2
PROJECTS

 6
AWARDS

Dr Anil Borah 

Professor
Assam Skill University

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 Expertise

Add / Edit

undefined

 undefined

 Email Information

Edit Information

 anilbassam@gmail.com

 Personal Information

Edit Information

Dr Anil Borah

 1965-03-01  Male

 Contact Information

Add / Edit

 Mechanical Engineering,Assam Skill University

 Guwahati ,Assam,India - 781016

 919435117198



 anilb@asu.ac.in

 <https://asu.ac.in> (<https://asu.ac.in>)

 Experience in Months

Add / Edit

 Academic: 36

 Administrative: 10

 Industry: 0

 Experience

Add

2025 - Present

 Professor
Assam Skill University,Darrang



1988 - 2024

 Professor
Assam Engineering College,Guwahati



 Education Qualification

Add

2007

 Ph.D
Indian Institute of Technology Guwahati



1993

 Masters in Production Engineering
Jadavpur University



1988

 Bachelor of Engineering
Jorhat Engineering College



 Honours and Awards

Add ~

- | | | |
|------|--|---|
| 2023 | 1% topper in the NPTEL course Welding Application Technology
NPTEL |   |
| 2019 | Felicitated as Eminent Engineer
The Institution of Engineers (India) , Guwahati State Centre |   |
| 2018 | Best Paper Award
International Conference on Recent Innovations and Developments in Mechanical Engineering, NIT Meghalaya, Shillong, India, November 8 – 10, 2018 |   |
| 2005 | Best Paper award
International conference on powder metallurgy at IIT Bombay, February 2005 |   |
| 1988 | 3rd position with honours in BE final examination
Dibrugarh University |   |
| 1988 | 3rd Prize in All Assam Story Writing Competition
Jorhat Engineering College, Jorhat Assam |   |
| 1987 | First Prize in All Assam Story Writing Competition
Cotton College Xahitya Sabha |   |

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Doctoral Theses Guided

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- | | | |
|------|---|---|
| 2022 | Processing and Characterization of 2XXX Series Aluminium Alloy Micro -Alloyed with Titanium (Ti)
Assam Engineering College,Manash Bhuyan |   |
| 2021 | Processing and Characterisation of 6xxx Series Aluminium Alloy Micro Alloyed with Tin (Sn)
Assam Engineering College,Monoj Boruah |   |



Membership in Professional Bodies

[Add ▾](#)

2016 Indian Welding Society (IWS)
Life member



2014 Institution of Engineers (India)
Fellow



1994 Indian Society for Technical Education
Life member



Membership in Committees

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2024 Board of Studies, Mechanical Engineering, School of Technology , Assam Don Bosco University
External Member



2022 Advisory Board of DSIR-TOCIC at IIT Guwahati
Member



2020 Guru Prasad Das School of Interdisciplinary and Vocational Studies” of Krishna Kanta Handiqui Open University, Assam
External Expert Member



Research Projects

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A comparative study of performance of solid lubricants in WC cutting tools

 Funding Agency : AICTE



 Completed

 Principal Investigator

₹ 2038824

 2020 - 2023

INVESTIGATION OF THE EFFECT OF TRACE ADDITION OF



TITANIUM ON 2XXX SERIES ALUMINIUM ALLOY

 Funding Agency : Assam Science and Technology University under TEQIP III



 Completed

 Principal Investigator

₹ 299993

 2019 - 2020

 Patent

Add ▾

 Publications

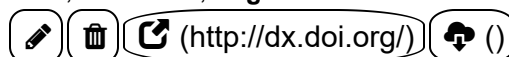
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All Article Conference Proceedings Conference Paper Review Book Chapter

Powder Metallurgy Processing of Ruthenium Aluminium Alloys

Anil Borah, PP. Singha, P.S. Robi, A. Srinivasan,

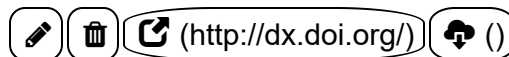
article Journal Of Materials Processing Technology **Volume** 153-154, **Year** 2004, **Pages** 952-957



Processing and Characterisation of Ruthenium Aluminide Alloys by Powder Metallurgy and Solidification Techniques.

Anil Borah, P.S. Robi, A. Srinivasan

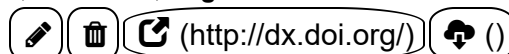
article Transactions of PMAI **Volume** 31, **Year** 2005, **Pages** 1-6



Synthesis of Nano-Crystalline RuAl by Mechanical Alloying

Anil Borah, P.S. Robi, Ajit L. Majumdar, A. Srinivasan

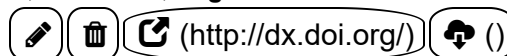
article METALS AND MATERIALS International **Volume** 13 No.4, **Year** 2007, **Pages** 293-302



Evolution of microstructure in heat-treated Ru-Al and Ru-Al-Ni alloys

Anil Borah, P.S. Robi, A. Srinivasan

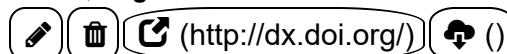
article METALS AND MATERIALS International **Volume** 14 No. 1, **Year** 2008, **Pages** 123-132



A Study on the Effect of Ageing and Intermetallic Compound Growth on the Shear Strength of Surface Mount Technology Solder Joints

Jyotishman Nath, Sabuj Mallik, Anil Borah

article J. Inst. Eng. India Series D, Springer **Volume** 96 (1), **Year** 2015, **Pages** 1-6



Structure-Property Correlation of Al-Mg-Si Alloys Micro-alloyed with Sn

Baruah M., Borah A.

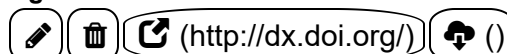
article International Journal of Metalcasting **Volume** 16, **Year** 2022, **Pages** 924-944



Impact behaviour and fractography of 6061 alloy with trace addition of Sn

Monoj Baruah, Anil Borah

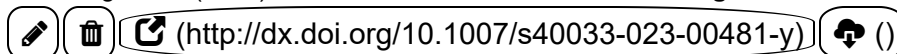
article Frattura ed Integrita Strutturale **Volume** 16, **Year** 2022, **Pages** 126-133



Ageing Kinetics of Al-4.28Cu-1.60 Mg Alloy Micro-Alloyed with Titanium

Manash Bhuyan ., Anil Borah .,

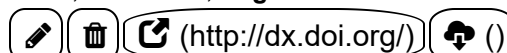
Article Journal of The Institution of Engineers (India): Series D **Volume** 105, **Year** 2024, **Pages** 305-311



Microstructure and Mechanical Properties Correlation of Al-4.28Cu-1.60 Mg Alloy Micro-Alloyed with Titanium

Manash Bhuyan and Anil Borah

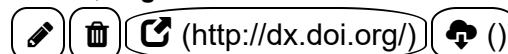
article Journal of Materials Engineering and Performance **Volume** 32, **Year** 2023, **Pages** 11085-11106



Microstructural evolution and hardening behaviour of cast and heat-treated Ru-Al and Ru-Al-Ni alloys

Borah A.;Robi P.S.;Mujumdar A.L.;Srinivasan A.

article METALS AND MATERIALS International **Volume** 14, **Year** 2008, **Pages** 123-132



Effect of Solution Treatment on Ageing Behaviour of Al-Mg-Si-Sn Alloy

Monoj Baruah, Anil Borah

article Advanced Engineering Forum Trans Tech Publications Ltd, Switzerland **Volume** 39, **Year** 2021, **Pages** 1-8



On the enhancement of wear resistance of Al-Mg-Si alloy via micro-alloying Sn

Monoj Baruah, Anil Borah

article Sādhanā **Volume** 46:129, **Year** 2021, **Pages** 1-9



Processing and precipitation strengthening of 6xxx series aluminium alloys: A review

Monoj Baruah, Anil Borah

article International Journal of Materials Science **Volume** 1(1), **Year** 2020, **Pages** 40-48



Investigating the effect of water cooling on hardness of 2xxx series aluminium alloy micro-alloyed with 0.02 and 0.04 wt% of Titanium

Manash Bhuyan, Anil Borah

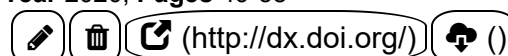
article Materials Today: Proceedings **Volume** 43, **Year** 2021, **Pages** 689-693



Microalloying effects of various metals on 2xxx series aluminium alloys – A Review

Manash Bhuyan, Anil Borah

article International Journal of Materials Science **Volume** 1(1), **Year** 2020, **Pages** 49-58



Optimization of process parameters in plasma arc cutting of commercial-grade aluminium plate

Mridusmita Roy Choudhury, Hrishikesh Dutta, Utpal Deka, Basireddy Bhavani, Kuldeep K. Saxena, and Anil Borah

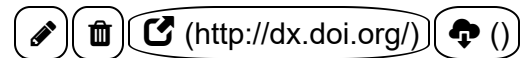
article High Temperature Materials and Processes **Volume** 43(1), **Year** 2024, **Pages** 1-11



A Study on the Effect of Micro-alloying of Titanium in 2xxx Aluminium Alloy

Manash Bhuyan, A.Saikia and Anil Borah

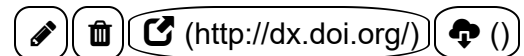
conference proceedings Proceedings of International Conference on Recent Innovations and Developments in Mechanical Engineering, NIT Meghalaya, Shillong, India, November 8 – 10, 2018 **Volume** , **Year** 2018, **Pages**



A Study of Effect of Micro-alloying of Tin on Ageing Behaviour of 6xxxSeries Aluminium Alloys

Baruah M.;Ladha A.;Baruah M.;Kar A.;Deb A.;Borah A.

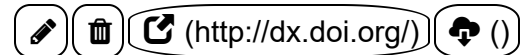
conference paper Proceedings of International Conference on Recent Innovations and Developments in Mechanical Engineering, NIT Meghalaya, Shillong, India, November 8 – 10, 2018 **Volume** , **Year** 2018, **Pages**



Processing of Ru-Al alloys by Mechanical Alloying

Anil Borah, P.S. Robi, A. Srinivasan

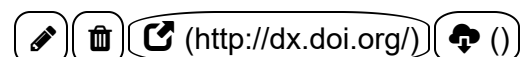
conference paper Proceedings of the National Conference on Recent Advances in Materials Processing(RAMP) **Volume** , **Year** 2001, **Pages** 335-341



Powder Metallurgy Processing of Ruthenium Aluminium Alloys

Anil Borah, PP. Singha, P.S. Robi, A. Srinivasan,

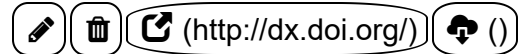
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Optimisation of Process Parameters in Turning of Grey Cast Iron with Mixed Oxide Ceramic Tool using Taguchi's Approach

S.K. Rajbongshi, A. Borah, P.K. Choudhury

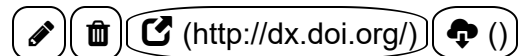
conference paper 5th International & 26th All India Manufacturing Technology, Design and Research Conference(AIMTDR) 2014 **Volume** 26, **Year** 2014, **Pages** 157



Processing and Characterization of Ruthenium Aluminide Alloys by PowderMetallurgy and Solidification Techniques

Anil Borah, P.S. Robi, A. Srinivasan, Ajit L. Mujumdar

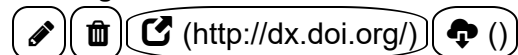
conference paper Proceedings of the International Conference on powder Metallurgy, IIT Bombay, February,2005 **Volume** , **Year** 2005, **Pages**



Structural Analysis of Mechanically Alloyed Nanocrystalline Ru-Al and Ru-Al-Ni Powder Mixtures

Archana Choudhury, Anil Borah, P.S. Robi

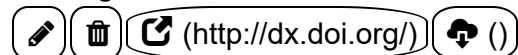
conference paper Proceedings of the International Conference on Fascinating Advancement in MechanicalEngineering, 11-13, December 2008 **Volume** , **Year** 2008, **Pages** 501-507



Microstructure and Electrical Resistivity of Mechanically Alloyed andSintered Ruthenium Aluminium Alloys

Anil Borah, P.S. Robi, A. Srinivasan

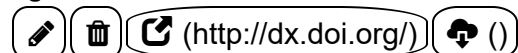
conference paper Proceedings of the International Conference on Fascinating Advancement in MechanicalEngineering, 11-13, December 2008 **Volume** , **Year** 2008, **Pages** 495 – 500



Processing and Microstructural Evolution of Ru-Al-Co alloys

Anil Borah, P.S. Robi, A. Srinivasan

conference paper Proceedings of the National Conference on New Approaches of Basic Sciences towardsthe development of Engineering and Technology (NABSET), 12-13 March, 2010, Don Bosco College of Engineering and Technology, Guwahati **Volume** , **Year** 2010, **Pages** 14-29

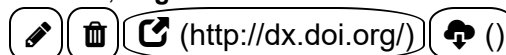


Tool Design Modelling for Electrochemical Machining through processphenomenal analysis

Papori Das, Jahnabi Basumatary, Niva R. Baruah, A. Borah

conference paper

Proceedings of the International Conference on the Computational Methods in Manufacturing, December 15–16, 2011, IIT Guwahati **Volume** , **Year** 2011, **Pages** 359–367



(http://dx.doi.org/)

Processing, Microstructural Evolution and Electrical Resistivity Studies ofRu-Al-Co alloys

Anil Borah, P.S. Robi, A. Srinivasan

conference paper

Proceedings of the 4th International and 25th All India Manufacturing Technology, Designand Research Conference, December 14–16, 2012 Jadavpur University, Kolkata **Volume** , **Year** 2012, **Pages** 156–166



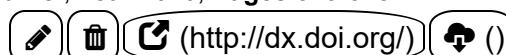
(http://dx.doi.org/)

Effect of welding parameters on mechanical properties in MIG Welding of1050 grade aluminium alloys

Sanjib Kumar Rajbongshi, Kangkan Saikia, Deepjyoti Baruah, Pranami Rajkhowa, Suruj Deka, Anil Borah

conference paper

Proceedings of the International Conference on Materials, Design and Manufacturing Process, ICMDM '16, February 17-19, 2016, Chennai, INDIA **Volume** , **Year** 2016, **Pages** 573-578



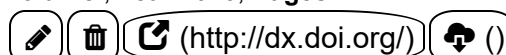
(http://dx.doi.org/)

Effect of Partial Substitution of Cement by Steel Slag in Autoclave AeratedConcrete (AAC) Block

Hrishikesh Bhattacharyya, Anil Borah, U. K. Nath

conference paper

Proceedings of 4th International Conference on Recent Advancement of MechanicalbEngineering (ICRAME) 2023, 03-05 February, 2023 **Volume** , **Year** 2023, **Pages**



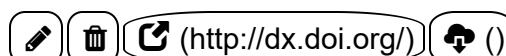
(http://dx.doi.org/)

Microalloying Effects of various Metals on 2xxx series aluminium Alloys

Manash Bhuyan and Anil Borah

review

International Journal of Materials Science Volume , Year 2020, **Volume** Vol. 1, Issue 1, Part A, **Year** 2020, **Pages** 49-58



(http://dx.doi.org/)

Analytical and Experimental Investigations on Temperature Distribution in Laser Line Heating

Neelav J. Sarma, Anil Borah, U.S. Dixit

conference paper

Proceedings of All Indian Seminar on Recent Trends in Mechanical Engineering, October 21-22, 2016, Organized by Institution of Engineers (India) Guwahati **Volume** , **Year** 2016, **Pages** 1-8

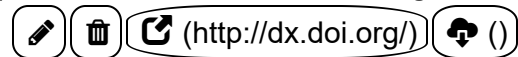


Analytical and Experimental Investigations on Temperature Distribution in Laser Line Heating

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Proceedings of All Indian Seminar on Recent Trends in Mechanical Engineering, October 21-22, 2016, Organized by Institution of Engineers (India) Guwahati **Volume** , **Year** 2016, **Pages** 1-8

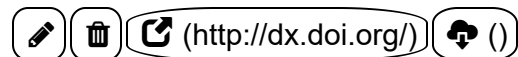


A Study on the Effect of Micro-alloying of Titanium in 2xxx Aluminium Alloy

Manash Bhuyan, Arnab Saikia and Anil Borah

book chapter

Advances in Mechanical Engineering: Select Proceedings of ICRIDME 2018 **Volume** , **Year** 2018, **Pages** 385-396

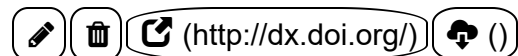


A Study of Effect of Micro-alloying of Tin on Ageing Behaviour of 6xxx Series Aluminium Alloys

Monoj Baruah , Anjali Ladha, Manish Baruah, Arnav Kar, Agradeep Deb and Anil Borah

book chapter

Advances in Mechanical Engineering: Select Proceedings of ICRIDME 2018 **Volume** , **Year** 2018, **Pages** 397-404

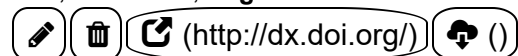


Investigating the Effect of Furnace Cooling on Hardness of 2XXX Series Al-Alloy Micro Alloyed with 0.04 wt% of Titanium

Manash Bhuyan, Nang Kingkham Chowpi, Eliza Maibangsa, Anurag Sarma and Anil Borah

book chapter

Advances in Science and Technology, ASTU **Volume** 2, **Year** 2022, **Pages**



Effect of Partial Substitution of Cement by Steel Slag in Autoclave Aerated Concrete (AAC) Block

Hrishikesh Bhattacharyya, Anil Borah, and U. K. Nath



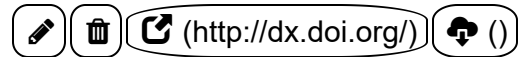
book chapter | Advances in Mechanical Engineering Select Proceedings of ICRAE 2023 **Volume 1, Year 2023, Pages 373 - 381**



A Comparative Study of CNC Milling of Aluminium using Flood Coolant and Air-Cooled Machining

A. Dhar, A. Saikia, M. K. Barman, N. Kashyap, A. Borah

conference paper | Proceedings of AICTE Sponsored National Conference on Innovative Trends in Mechanical & Automobile Engineering [ITMAE-2016], 11–12 February, 2016, MVSR Engineering College, Hyderabad **Volume , Year 2016, Pages**



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 Scientist-E (LS)

 vidwan@inflibnet.ac.in (<mailto:vidwan@inflibnet.ac.in>)

 Shri Yatrik Patel

 Scientist-E (CS)

 Shri Abhishek Kumar

 Scientist-E (CS)



