

RESUME of S.Chattopadhyaya, Associate Professor – IIT(ISM)



I review for: 'Materials & Design', 'Measurement' and 'Precision Engineering'

ELSEVIER

1. **NAME :** SOMNATH CHATTOPADHYAYA
2. **FATHER'S PROFESSION:** Ex. Head of the Department of Political Science, City College (Calcutta University)
3. **PERMANENT ADDRESS:** A B – 6 5, SECTOR – I, BIDHAN NAGAR,
KOLKATA, WEST BENGAL, INDIA, PIN – 7 0 0 0 6 4.
4. **CONTACT NO.:** PHONE – 09431954821, Email: somnathchattopadhyaya@iitism.ac.in
5. **PASSPORT NO.:** N5724279 Valid till 10.02.2026
6. **DATE OF BIRTH:** December 1968.
7. **NATIONALITY:** INDIAN,

8. QUALIFICATIONS:

ACADEMIC:

Exam Passed	Board / Institute	Main Subjects	Marks Obtained
Higher Secondary Examination (1987)	W.B.C.H.S.E.	Literature, Physics, Mathematics, Chemistry, Statistics	76.40 % National Scholar Rank – 103 rd (out of 3,00,000)
Secondary Examination (1985)	W.B.B.S.E	Humanities, Science, Mathematics, Additional mathematics	82.56% National Scholar, Rank – 63 rd (out of 3,00,000) Letter Marks – Six Subjects

Award: Merit Award from Barrackpore Sub-Division for Both Secondary and Higher Secondary Examinations

(B) TECHNICAL:

Degree	Institute	Subjects	Marks
Erasmus Fellow for a week, June, 2018	Technical University of Kosice, Slovakia	Delivering Lectures on Manufacturing and coorganized International Conference ICMEM 2018	NA
Participant for Erasmus+ International meet (June, 2017)	UPM, Madrid	Attending Erasmus+ International meet for one and Half week.	NA
Post Doctoral Research (May, 2016)	Institute of Geonics, Ostrava, Czech Republic	3 weeks research in distinegration of materials with high pressure water jet, abrasive and pulsating waterjet cutting	NA
Post Doctoral Research (May, 2015)	Institute of Geonics, Ostrava, Czech Republic	5 weeks research on high pressure water jet, abrasive and pulsating waterjet cutting	NA
Post Doctoral Research (September, 2013)	AALTO University, Helsinki, Finland	6 Weeks Research on Friction Stir Surfacing at AALTO University Helsinki, Finland from September, 2013 to Novemeber 2013.	NA
PhD (Prodn. Engg.) Jan, 2005	BIT-Mesra, Ranchi	Transfer of Agile Manufacturing Technology To Rural Medium And Small Scale Industries (With Special Reference To Indian Manufacturing Environment)	NA
M.Tech Mechanical Engg.(1999)	Indian Institute of Technology (Indian School of Mines)	Facility System Analysis for the Handling of Materials in a Conveyor belt Manufacturing unit	Equivalent to 1 st Class (M.Tech By research)
B.E. in Production Engg. (1992)	Jadavpur University	Manufacturing, Industrial Engineering, Production Management, CAM.	79.85% First Class Hon. Rank 7 th (out of 22)

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“A” Level (1998) Post Graduate Diploma in Computer Science	DOEACC	C, System Analysis & Design, DBMS, Unix & DOS, Business Data Processing, Systems Software, Computer Simulation, Digital Computer & Assembly Language, Computer Graphics, Data Communication & Networks, Data Structure through C, Projects.	55-64%
“O” Level (Business Professional Programmer) (1994)	DOEACC	Computer Fundamentals, MS Office, System Analysis & Design, Programming in BASIC	Grade – B (65 – 74%)

(D) Professional Certificate: ISO 9001 Internal Auditor in Design Department

9. External PhD thesis examiner Jadavpur University, NIT-Durgapur, NIT-Trichy, NIT-Jamshedpur, BIT Mesra, BIT Sindhri, KIT Bhubaneswar, GLA Mathura.

10. Works Experience: 29 years

Company	Duration	Basic
Indian Institute of Technology(ISM)	17 Yrs 2 months	CTC Rs. 26.00 Lacs p.a. (Basic - Rs.1,66,800/-)
BIT-Mesra (Ranchi) (Asst Prof. – Dept. of Production Engg.)	4 Yrs	1.25 L p.a.
Unigears (P) Ltd. (Asst. Mgr.-Operations)	2 Yrs	0.60 L p.a.
SWIL (Asst. Mgr. – Planning & Design)	2 Yrs	0.50 L p.a.
Dunlop India Ltd. (Section Manager-IE)	4 Yrs	0.48L p.a.

From	To	Designation	Organization	Job
June 2009	Till date	Associate Professor (Mechanical Engg.)	Indian Institute of Technology (ISM)	Teaching Manufacturing Technology, Advanced Manufacturing System, Nontraditional Manufacturing Processes
21st May,2018	3rd July,2019	Associate Dean (Innovations and Incubations)		International relations, Innovations and Incubations
June,2006	June 2009	Assistant Professor (Mechanical Engg.)		Teaching Manufacturing Technology, Advanced Manufacturing System, Nontraditional Manufacturing Processes
May,2003	Jan 2008	Workshop Superintendent		
July, 1999	May, 2003	Asstt. Professor – Production Engg.	Birla Institute of Technology – Mesra	Teaching -Non Traditional Mfg. Processes ,Reliability Engg.
Jan, 1997	July 1999	Asstt. Manger – Projects Manager- Operations	Unigears (P) Ltd.	Project Execution, Vendor Development in different parts of India, Shop Floor Managing, Vendor Development, Customer Interactions (Philips, Telco, ESAB)
Nov, 1994	Feb, 1996	Asstt. Manager-Projects – Heavy Machine Building Division	Shalimar Wire Industries Ltd. (SWIL)	Planning, Vendor Development, Project execution, MIS, Project Execution, ISO 9001 Implementation
July, 1991	Nov, 1994	Section Manager – IE (Truck Tyre & IP Div.)	Dunlop India Ltd.	Development of IE Standards, Long Term Rate Settlement with Unions, MIS

11. Awards, Projects & Patents

2018

Received award of the best team paper in international conference held in University of Novisad, Serbia, held in 2018

2015

Recipient of the the Best Researcher Award instituted by Canara Bank Ltd. from the department of Mechanical Engineering of IIT(ISM) based on the Cumulative Impact Factors of **SCIE** journals.

2013

Second best Paper in an Annual International Conference organized by TEAM Society of Eastern European Countries held at Presov,Slovakia in November,2013.

2000

1. Received the best paper award for presentation of the paper entitled “Smart Layer Approach for Built Diagnostic”, in one of the technical sessions in the National Conference on “Agile Engineering”, 2000.

2. Received the best paper award for the presentation of the paper entitled “Design of a Mechatronic Factory - A case study on a Conveyor Belt Manufacturing unit”, in one technical session of the National Seminar on “Mechatronics in Manufacturing Systems ” and 14th National Convention of Production Engineers, IE (I).

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Sl. No.	Source	Role & Title	Outlay	Status
1.	NPIU (Under TEQIP – III collaborative Sceme)	Role – Co PI, Title : Development and characterization of under - water friction stir welding (UWFSW) process	Rs.13.50 Lacs	18 th June 2019 (Ongoing)
2.	NPIU (Under TEQIP – III collaborative Sceme)	Role – Co PI “Design & Development of a Proof-of-Concept Model of a Doubly Curved Membrane based Space Structure” has been approved under “TEQIP Collaborative Research Scheme	Rs.9.750 Lacs	18 th June 2019 (Ongoing)
3.	Indo-Australian Govt Fund	Role – Member of three member IIT/ISM team along with the Faculty members of Royal Melbourne Institute of Technology Topic - Advancement in Mining	27,000 Australian \$ 23,741 Australian \$ (Rs.11,54,381/-) received by IIT(ISM)	Ccompleted in Jan,2020
4.	DST (CCORD)	Role- Co-PI Investigation into the planning and design aspects governing the selective coal cutting technology using surface miner for various rock conditions for clean coal production	Rs.3.36 Crore	14 th June,2019
5.	DRDO Hyderabad	Role – Solo PI, Critical Investigation into the cracking related to stress corrosion in maraging steel weldment. (Project No. DRD(11)/2018-19/604/MECH. Engg.)	Rs.9.971 Lac	04/09/2018 (Completed in 03/03/20)
6.	Ministry of Power	Role Co-PI, Development of a selection Methodology for Road Header and Tunnel Boring Machine and Road Header for different Geological Character for Road Tunneling (Collaboration with CIMFR – Nagpur),	Sanctioned Amount – Rs. 3.50 Crore IIT(ISM) - Rs. 1.23 Crore Rest CIMFR Nagpur	2016 (Ongoing) To be completed in Oct,2020
7.	UGC	Role – Solo PI, Submerged Arc Welding	Rs.10.160 Lac	2013 (Completed)
8.	AICTE TAPTEC	Role- Solo PI, Development of Manufacturing System	Rs.5.00 Lac	2000 (Completed)

Patents

2017

Published a patent on “Friction Stir Welding Joint Sample machining maethod apparatus and method” , Application No. – TEMPE-1/4170/2017-KOL

Book and Journal Publications:

Books Published

2019

A book chapter is written entitled “Designing and analysis of the femoral neck for an artificial hip joint prosthesis”, DOI: 10.1016/B978-0-08-102174-3.00002-4, In book: Mechanical Behaviour of Biomaterials, Luke Hocking, A. Pramanik,A.K. Basak, Somnath Chattopadhyaya

2018

Advances in Manufacturing Engineering and Materials

Proceedings of the International Conference on Manufacturing Engineering and Materials (ICMEM 2018), 18–22 June, 2018, Nový Smokovec, Slovakia,

Editors: Hloch, S., Klichová, D., Krolczyk, G.M., Chattopadhyaya, S., Ruppenthalová, L. (Eds.) – Indexed in WoS

2015

1.Hydro Abrasive Cutting – a surface structure study

Authors

Sergej Hloch, Peter Monka – Slovakia

Grzegorz Krolczyk – Poland

Drazan Kozak, Ivan Samardzic, Antun Stoic – Croatia

Aleksandar Sedmark – Serbia

Somnath Chattopadhyaya – India

Publisher - Victoria Publishing House, May, 2015.

2. “Numerical Analysis of Heat and Mass Transfer in Porous Media” – a Chapter entitled “Assessment of Heat Affected Zone of Submerged Arc Welding Process through Digital Image Processing” - A.Ghosh, Somnath Chattopadhyaya,N.K.Singh (Springer-Verlag), September 2012, “Nnumerical analysis of heat and mass transfer in porous media”, Advanced Structured Materials, 2012, Volume 27, 209-228, DOI: 10.1007/978-3-642-30532-0_8,pp. 209-228.

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Member of the International Advisory Board of iJET (int. J. of Engg. and Technology) Scientific Journal ISSN 1338-2357 (Slovakia)

Member of the Editorial Board of an Int. J. of Manufacturing and Industrial Engineering, Published from Eastern Europe. Co-Chair of the Conference on J.of Engg. and Technology at Poprad, Slovakia, held during 21-26 th June,2011.

PhD Thesis Guided: Seven (Awarded), one defense seminar held, one submitted

Sl. No.	Name of the candidate	Title of the thesis	Role	Date of award
1.	Deepak Kumar Gope	Experimental investigation into the weldability of similar and dissimilar GTAW joint of different aerospace materials.	Main Supervisor	20 th June,2020
2.	Ravi Kumar	Characterization of friction-surfaced coatings produced by an AISI 316 consumable rod on a high-speed- steel substrate	Solo Supervisor	4 th April, 2018
3.	Gagan Gupta	Critical Reliability and Failure Analysis of Superheater Tubes of Coal-Based Boiler	Solo Supervisor	26 th February,2018
4.	Ratnesh Kumar	Experimental Investigation of Thermomechanical characteristics of Friction Stir Welded joints	Solo Supervisor	14 th January,2017
5.	Saurabh Dewangan	Investigation into the performance of conical coal cutting picks	Solo Supervisor	21 st September,2015
6.	Aniruddha Ghosh	Some investigations of the yield parameters of submerged arc welding process	Co-Supervisor	13 th August,2013
7.	Sanjeev Kumar	Developing green supply chain system for Indian small and medium enterprises	Solo Supervisor	7 th December,2012
8.	Uday Kumar	Experimental and numerical investigation of temperature field of laser welded joints and analysis of mechanical properties at different annealing temperatures	Main Supervisor	Submitted on Sep, 19
9.	Rajeev Kumar	Critical Investigation into the weldability of Super Duplex Stainless Steel using Variants of Gas Tungsten Arc Welding”.	Main Supervisor	Presubmission seminar delivered on 11/05/2020
10.	Madhulika Srivastava	Pulsating high pressure waterjet	Main Supervisor	Presubmission seminar on 31/07/2020
11.	Zishanur Rahaman	Micro-EDM	Co-Supervisor	Presubmission seminar by Sep.2020
12.	Md.Shariq	Three Dimensional printing		Presubmission seminar by Sep.2020

Int. Journal (SCIE) : 40

Citation Profile

Name of Citation System	Total Citations	h index	i ¹⁰ Index	No. airticles cited	Reads	Articles by the Author (till date in the database)
Google Scholar	1,206	18	39			164
Research Gate	876	13	12		39,036	135 (Score 31.8)
SCOPUS	817	15	20	661	25,000	121
WoS (Articles) SCIE	549	13	21	469		55

No. of Reviews : 142 as per Publons database

List of Publications (SCIE Indexed Journal) - 40

Sl. No.	Publications	Indexed in / Impact Factor
1	Multi response optimization of process parameters based on Taguchi-Fuzzy model for coal cutting by water jet technology, Sharma, Vinay; Chattopadhyaya, Somnath; Hloch, Sergej, INT. J. OF ADVANCED MANUFACTURING TECHNOLOGY, Vol.56, Issue: 9-12, Pages: 1019-1025, DOI: 10.1007/s00170-011-3258-x, OCT 2011	SCIE – Q2 IF- 2.601
2	Joining of carbon fibre reinforced polymer (CFRP) composites and aluminium alloys - A review, Pramanik, A ; Basak, AK ; Dong, Y ; Sarker, PK; Uddin, MS ; Littlefair, G ; Dixit, AR ; Chattopadhyaya, S, COMPOSITES PART A-APPLIED SCIENCE AND MANUFACTURING, Vol.101, Pages: 1-29, DOI: 10.1016/j.compositesa.2017.06.007, OCT 2017	SCIE-Q1 IF-4.514
3	Wear characteristics and defects analysis of friction stir welded joint of aluminium alloy 6061-t6, Kumar, R; Chattopadhyaya, S ; Hloch, S; Krolczyk, G ; Legutko, S, EKSPLOATACJA I NIEZAWODNOSC- MAINTENANCE AND RELIABILITY, Vol.18, Issue: 1,Pages: 128-135,DOI: 10.17531/ein.2016.1.17, 2016	SCIE-Q2 IF- 1.383
4	Wear Assessment of Conical Pick used in Coal Cutting Operation	SCIE – Q1

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	Dewangan, S; Chattopadhyaya, S ; Hloch, S, ROCK MECHANICS AND ROCK ENGINEERING Vol.48, Issue: 5, Pages: 2129-2139, DOI: 10.1007/s00603-014-0680-z, SEP 2015	IF-2.819
5	Determination of layer thickness in direct metal deposition using dimensional analysis Kumar, S; Sharma, V; Choudhary, AKS; Chattopadhyaya, S; Hloch, S, INT. J. OF ADVANCED MANUFACTURING TECHNOLOGY, Vol.67, Issue: 9-12,Pages: 2681-2687,DOI: 10.1007/s00170-012-4683-1, Aug. 2013	SCIE – Q2 IF-2.601
6	Surface integrity analysis of abrasive water jet-cut surfaces of friction stir welded joints, Kumar, R; Chattopadhyaya, S ; Dixit, AR; Bora, B; Zelenak, M; Foldyna, J; Hloch, S; Hlavacek, P; Scucka, J; Klich, J, INT. J. OF ADVANCED MANUFACTURING TECHNOLOGY, Vol. 88,Issue: 5-8,Pages: 1687-1701,DOI: 10.1007/s00170-016-8776-0,FEB 2017	SCIE – Q2 IF-2.601
7	Characterization of Wear Mechanisms in Distorted Conical Picks After Coal Cutting, Dewangan, S; Chattopadhyaya, S, ROCK MECHANICS AND ROCK ENGINEERING, Vol.49,Issue: 1,Pages: 225-242,DOI: 10.1007/s00603-015-0726-x,JAN 2016	SCIE – Q1 IF-2.819
8	Performance Analysis of Two Different Conical Picks Used in Linear Cutting Operation of Coal, Dewangan, S; Chattopadhyaya, S, ARABIAN J.FOR SCIENCE AND ENGINEERING, Vol.41, Issue: 1,Pages: 249-265,DOI: 10.1007/s13369-015-1786-7,JAN 2016	SCIE – Q3 IF-1.092
9	Critical Analysis of Wear Mechanisms in Cemented Carbide, Dewangan, S ; Chattopadhyaya, S, J. OF MATERIALS ENGINEERING AND PERFORMANCE, Vol.24, Issue: 7, Pages: 2628-2636,DOI: 10.1007/s11665-015-1546-6,JUL 2015	SCIE – Q3 IF-1.094
10	Analysis of acoustic emission emerging during hydroabrasive cutting and options for indirect quality control, Hloch, S ; Valicek, J; Kozak, D; Tozan, H ; Chattopadhyaya, S; Adamcik, P, INT. J. OF ADVANCED MANUFACTURING TECHNOLOGY, Vol. 66,Issue: 1-4,Pages: 45-58,DOI: 10.1007/s00170-012-4304-z,APR 2013	SCIE – Q2 IF-1.372
11	Effect of Size, Content and Shape of Reinforcements on the Behavior of Metal Matrix Composites (MMCs) Under Tension, Paknia, A; Pramanik, A; Dixit, AR; Chattopadhyaya, S, J. OF MATERIALS ENGINEERING AND PERFORMANCE, Vol.25,Issue: 10,Pages: 4444-4459, DOI: 10.1007/s11665-016-2307-x,OCT 2016	SCIE-Q3 IF-1.340
12	HEAT INPUT EFFECT OF FRICTION STIR WELDING ON ALUMINUM ALLOY AA 6061-T6 WELDED JOINT, Sedmak, AS; Kumar, R; Chattopadhyaya, S; Hloch, S; Tadic, SS; Djurdjevic, AA; Cekovic, I ; Donceva, E, THERMAL SCIENCE, Vol.20,Issue: 2,Pages: 637-641, DOI: 10.2298/TSCI150814147D,2016	SCIE-Q3 IF-1.431
13	Improvement of surface integrity of Nimonic C 263 super alloy produced by WEDM through various post-processing techniques, Mandal, A; Dixit, AR; Chattopadhyaya, S ; Paramanik, A; Hloch, S; Krolczyk, G, INT. J.OF ADVANCED MANUFACTURING TECHNOLOGY, Vol. 93, Issue: 1-4,Pages: 433-443,DOI: 10.1007/s00170-017-9993-x, OCT 2017	SCIE-Q2 IF-2.601
14	Critical Investigation of Wear Behaviour of WC Drill Bit Buttons, Gupta, A; Chattopadhyaya, S; Hloch, S, ROCK MECHANICS AND ROCK ENGINEERING, Vol. 46, Issue: 1,Pages: 169-177,DOI: 10.1007/s00603-012-0255-9, JAN 2013	SCIE-Q1 IF-2.819
15	Ultrasonically generated pulsed water jet peening of austenitic stainless-steel surfaces, Srivastava, M; Hloch, S; Tripathi, R; Kozak, D; Chattopadhyaya, S; Dixit, AR; Foldyna, J ; Hvizdos, P; Fides, M; Adamcik, P, J.OF MANUFACTURING PROCESSES, Vol.32, Pages: 455-468, DOI: 10.1016/j.jmapro.2018.03.016, APR 2018	SCIE Q1 IF-2.809 Rank-1 st in the Domain
16	Surface alloying of miniature components by micro-electrical discharge process, Prakash, V; Shubham; Kumar, P; Singh, PK; Das, AK ; Chattopadhyaya, S; Mandal, A; Dixit, AR, MATERIALS AND MANUFACTURING PROCESSES, Vol.33, Issue: 10,Pages: 1051-1061,DOI: 10.1080/10426914.2017.1364755,2018	SCIE Q2 IF-2.66
17	Contribution of machining to the fatigue behaviour of metal matrix composites (MMCs) of varying reinforcement size, Pramanik, A; Islam, MN; Davies, IJ; Boswell, B; Dong, Y; Basak, AK; Uddin, MS; Dixit, AR ; Chattopadhyaya, S, INT. J. OF FATIGUE, Vol. 102,Pages: 9-17, DOI: 10.1016/j.ijfatigue.2017.04.018,SEP 2017	SCIE Q1 IF-3.132
18	Experimental investigation of pug cutter embedded TIG welding of Ti-6Al-4V titanium alloy Gope, DK; Kumar, U; Chattopadhyaya, S; Mandal, S, J. OF MECHANICAL SCIENCE AND TECHNOLOGY, Vol.32, Issue: 6, Pages: 2715-2721,DOI: 10.1007/s12206-018-0528-7,JUN 2018	SCIE Q-3 IF-1.194
19	Experimental and mathematical evaluation of thermal and tensile properties of friction stir welded joint, Kumar, R; Bora, B; Chattopadhyaya, S; Krolczyk, G; Hloch, S, INT. J. OF MATERIALS & PRODUCT TECHNOLOGY, Vol.57, Issue: 1-3,Pages: 204-229, DOI: 10.1504/IJMPT.2018.10012951,2018	SCIE-Q4 IF -0.802
20	Effect of laser power and welding speed on microstructure and mechanical properties of fibre laser-welded Inconel 617 thin sheet, Kumar, P; Saw, K; Kumar, U; Kumar, R; Chattopadhyaya, S; Hloch, S, J.OF THE BRAZILIAN SOCIETY OF MECHANICAL SCIENCES AND ENGINEERING, Vol.39,Issue: 11, Pages: 4579-4588,DOI: 10.1007/s40430-017-0734-8,NOV 2017	SCIE-Q3 IF-1.627
21	Fatigue life of machined components, Pramanik, A; Dixit, AR; Chattopadhyaya, S; Uddin, MS; Dong, Y; Basak, AK; Littlefair, G, ADVANCES IN MANUFACTURING, Vol.5,Issue: 1, Pages: 59-76, Special Issue: SI, DOI: 10.1007/s40436-016-0168-z, Published: MAR 2017	SCIE-Q3 IF-1.706
22	Residual stress and surface properties of stainless steel welded joints induced by ultrasonic pulsed water jet	SCIE-Q1

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	peening, Srivastava, M; Hloch, S; Krejci, L; Chattopadhyaya, S; Dixit, AR; Foldyna, J, MEASUREMENT, Vol.127, Pages: 453-462, DOI: 10.1016/j.measurement.2018.06.012, Published: OCT 2018	IF-3.36
23	Wear behavior of chromium nitride coating in dry condition at lower sliding velocity and load, Singh, SK; Chattopadhyaya, S; Pramanik, A; Kumar, S, INT. J. OF ADVANCED MANUFACTURING TECHNOLOGY, Vol.96, Issue: 5-8, Pages: 1665-1675, DOI: 10.1007/s00170-017-0796-x, MAY 2018	SCIE Q2 IF-2.601
24	Reliability analysis and failure rate evaluation for critical subsystems of the dragline, Pandey, P; Mukhopadhyay, AK; Chattopadhyaya, S, J. OF THE BRAZILIAN SOCIETY OF MECHANICAL SCIENCES AND ENGINEERING, Vol.40, Issue: 2, Article Number: UNSP 50, DOI: 10.1007/s40430-018-1016-9, FEB 2018	SCIE Q3 IF-1.627
25	Processing of duplex stainless steel by WEDM, Pramanik, A; Basak, AK (Basak, A. K.); Dixit, AR (Dixit, A. R.); Chattopadhyaya, S, MATERIALS AND MANUFACTURING PROCESSES, Vol.33, Issue: 14, Pages: 1559- 1567, DOI: 10.1080/10426914.2018.1453165, 2018	SCIE Q2 IF-2.66
26	Microhole drilling through electrochemical processes: A review By: Rahman, Z (Rahman, Zishanur); Das, AK (Das, Alok Kumar) [1]; Chattopadhyaya, S (Chattopadhyaya, Somnath), MATERIALS AND MANUFACTURING PROCESSES Vol.33, Issue: 13, Pages: 1379-1405, DOI: 10.1080/10426914.2017.1401721, Published: 2018	SCIE Q2 IF-2.66
27	Investigation of microstructure and mechanical properties of titanium alloy sheet using low power Nd-YAG laser welding process, Kumar, U (Kumar, U.); Gope, DK (Gope, D. K.); Kumar, R (Kumar, R.); Chattopadhyaya, S (Chattopadhyaya, S.); Das, AK (Das, A. K.); Pramanik, A (Pramanik, A.); Krolczyk, G (Krolczyk, G.), KOVOVE MATERIALY-METALLIC MATERIALS, Vol. 56, Issue: 2, Pages: 121-129, DOI: 10.4149/km_2018_2_121, Published: 2018	SCIE Q4 IF-0.636
28	Shailesh Kumar Singh, Somnath Chattopadhyaya, Alokesh Pramanik, Sanjeev Kumar, A.K. Basak, "Effect of lubrication on the wear behavior of CrN Coating deposited by PVD process", accepted for publication in Int. J. of Surface Science and Engineering Inderscience Publishers Ltd. In Nov, 2018, Impact Factor – 0.841.	SCIE Q3 IF-0.841
29	Mohammed Shariq, Madhulika Srivastava, Rupam Tripathi, Somnath Chattopadhyaya, Pedro Vilaca, Nenad Gubeljak, Grzegorz Krolczyk, "Optimization and characterization of friction surfaced coatings of ferrous alloys" J. of Materials Testing in July, 2018, 60 (2018) 7-8 © Carl Hanser Verlag, München, https://www.hanser-elibrary.com/doi/10.3139/120.111180	SCIE-Q4 IF-0.521
30	Micro-electrical discharge machining of difficult-to-machine materials: A review, Ved Prakash , P Kumar , PK Singh , M Hussain , AK Das , S Chattopadhyaya , First Published July 23, 2017 Research , J.of Engineering Manufacture, SAGE Publications, July 2017, SCIE J. IF-1.366, https://doi.org/10.1177/0954405417718591	Indexed in SCIE IF-1.445
31	Investigation of sandstone erosion by continuous and pulsed water jets By: Raj, P (Raj, Piush); Hloch, S (Hloch, Sergej); Tripathi, R (Tripathi, Rupam); Srivastava, M (Srivastava, Madhulika); Nag, A (Nag, Akash); Klichova, D (Klichova, Dagmar); Klich, J (Klich, Jiri); Hromasova, M (Hromasova, Monika); Muller, M (Muller, Miroslov); Miloslav, L (Miloslav, Linda), Chattopadhyaya, S (Chattopadhyaya, Somnath); Adamcik, P (Adamcik, Pavel), J.OF MANUFACTURING PROCESSES, Vol. 42, Pages: 121-130, DOI: 10.1016/j.jmapro.2019.04.035, JUN 2019	SCIE-Q2 IF-2.801
32	Surface integrity and residual stress analysis of pulsed water jet peened stainless steel surfaces", Srivastava, M ; Hloch, S ; Gubeljak, N ; Milkovic, M ; Chattopadhyaya, S ; Klich, J , MEASUREMENT, Vol. : 143, Pages: 81-92, DOI: 10.1016/j.measurement.2019.04.082, Published: SEP 2019	SCIE-Q2 IF-2.218
33	Investigations into Reliability, Maintainability and Availability of Tunnel Boring Machine operating in mixed ground condition using Markov chains, Anil Kumar Agrawal, V.M.S.R Murthy, Somnath Chattopadhyaya published online in the journal of Engineering Failure Analysis, Available online 2 July 2019, https://doi.org/10.1016/j.engfailanal.2019.07.013	SCIE-Q2 IF- 2.203
34	Joint strength evaluation of friction stir welded Al-Cu dissimilar alloys, Shankar, S (Shankar, Sachindra); Vilaca, P (Vilaca, Pedro); Dash, P (Dash, Priyabrat); Chattopadhyaya, S (Chattopadhyaya, Somnath); Hloch, S (Hloch, Sergej), MEASUREMENT, Vol.146, Pages: 892-902, DOI: 10.1016/j.measurement.2019.07.019, NOV 2019	SCIE-Q1 IF-3.36
35	Influence of frequency change during sandstone erosion by pulsed waterjet, By: Tripathi, R (Tripathi, Rupam); Hloch, S (Hloch, Sergej); Chattopadhyaya, S (Chattopadhyaya, Somnath); Klichova, D (Klichova, Dagmar); IKlich, J (IKlich, Jir), MATERIALS AND MANUFACTURING PROCESSES, Sep 2019, DOI: 10.1080/10426914.2019.1669800	SCIE Q2 IF-3.350 Q2
36	Machining performance of Inconel 718 using graphene nanofluid in EDM Paswan, K (Paswan, Kamlesh); Pramanik, A (Pramanik, A.); Chattopadhyaya, S (Chattopadhyaya, S.), MATERIALS AND MANUFACTURING PROCESSES DOI: 10.1080/10426914.2020.1711924, Early Access: JAN 2020	SCIE Q2, IF-3.350
37	Characterization of AuNPs based ink for inkjet printing of low cost paper based sensors Author links open overlay panel, Mohammed Shariq , Somnath Chattopadhyaya , Rebeka Rudolf , Amit Rai Dixit , Materials Letters, Vol.264, 1 April 2020, 127332, Received 16 November 2019, Revised 4 January 2020, Accepted 8 January 2020, Available online 9 Jan. 2020.	SCIE Q2

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38	Application of the pulsating and continuous water jet for granite erosion By: Tripathi, R (Tripathi, Rupam); Hloch, S (Hloch, Sergej); Chattopadhyaya, S (Chattopadhyaya, Somnath); Klichova, D (Klichova, Dagmar); Scucka, J (Scucka, Jiri); Das, AK (Das, Alok Kumar) INT. J. OF ROCK MECHANICS AND MINING SCIENCES Vol.: 126, Article Number: 104209, DOI: 10.1016/j.ijrmms.2020.104209, Published: FEB 2020	SCIE Q2
39	A novel approach towards sustainable electrical discharge machining of metal matrix composites (MMCs) Paswan, K ; Pramanik, A ; Chattopadhyaya, S ; Basak, AK INT. J. OF ADVANCED MANUFACTURING TECHNOLOGY Volume: 106, Issue: 3-4, Pages: 1477-1486, DOI: 10.1007/s00170-019-04816-6, Published: JAN 2020	SCIE Q2
40	Advances in Manufacturing Engineering and Materials Proceedings of the International Conference on Manufacturing Engineering and Materials (ICMEM 2018), 18–22 June, 2018, Nový Smokovec, Slovakia Editors: Hloch, S., Klichová, D., Krolczyk, G.M., Chattopadhyaya, S., Ruppenthalová, L. (Eds.), Reports on cutting-edge research on (un)conventional manufacturing Publisher: Springer	Indexed in WoS and SCOPUS
41	A Novel Method of Laser Coating Process on Worn-Out Cutter Rings of Tunnel Boring Machine for Eco-Friendly Reuse AK Agrawal, S Chattopadhyaya, V Murthy, S Legutko, G Krolczyk Symmetry 12 (3), 471	SCIE Q2
42	Book Chapter published entitled “ Designing and analysis of the femoral neck for an artificial hip joint prosthesis”, Luke Hocking ¹ , A. Pramanik ^{2*} , A. K. Basak ² , S. Chattopadhyaya, Available online 21 June 2019, DOI: https://doi.org/10.1016/B978-0-08-102174-3.00002-4 .	Listed in SCOPUS
43	Book Chapter published entitled “Stress in the interfaces of metal matrix composites (MMCs) in thermal and tensile loading 455”, A. Pramanik, A.K. Basak, G. Littlefair, A.R. Dixit and S. Chattopadhyaya, Woodhouse Publications, Elsevier.	

List of Publications (WoS Proceedings)

Sl. No.	Publications	Category
1	Potential of using water jet peening as a surface treatment process for welded joints By: Srivastava, M (Srivastava, Madhulika); Tripathi, R (Tripathi, Rupam); Hloch, S (Hloch, Sergej) ; Chattopadhyaya, S (Chattopadhyaya, Somnath); Dixit, AR (Dixit, Amit Rai) INTERNATIONAL CONFERENCE ON MANUFACTURING ENGINEERING AND MATERIALS, ICMEM 2016 Volume: 149, Pages: 472-480, DOI: 10.1016/j.proeng.2016.06.694, Published: 2016, Document Type: Proceedings Paper,	WoS Proceeding
2	Discussion on Wear Phenomena in Cemented Carbide By: Nahak, S (Nahak, Sakuntala); Dewangan, S (Dewangan, Saurabh); Chattopadhyaya, S (Chattopadhyaya, Somnath), GLOBAL CHALLENGES, POLICY FRAMEWORK & SUSTAINABLE DEVELOPMENT FOR MINING OF MINERAL AND FOSSIL ENERGY RESOURCES (GCPF2015) Vol.11, Pages: 284-293, DOI: 10.1016/j.proeps.2015.06.063 Published: 2015, Document Type: Proceedings Paper, Conference: Global Challenges, Policy Framework & Sustainable Development for Mining of Mineral and Fossil Energy Resources (GCPF), Location: Mangalore, INDIA, Date: APR 17-18, 2015	WoS Proceeding
3	Prediction of Submerged Arc Welding Yield Parameters through Graphical Technique By: Ghosh, A (Ghosh, Aniruddha); Chattopadhyaya, S (Chattopadhyaya, Somnath); Das, RK (Das, R. K.); Sarkar, PK (Sarkar, P. K.) 11TH INTERNATIONAL CONFERENCE ON THE MECHANICAL BEHAVIOR OF MATERIALS (ICM11), Volume: 10, DOI: 10.1016/j.proeng.2011.04.465 Published: 2011, Document Type: Proceedings Paper, Conference: 11th International Conference on the Mechanical Behavior of Materials (ICM), Location: Como, ITALY, Date: 2011	WoS Proceeding
4	MICROSTRUCTURAL STUDY OF FAILURE PHENOMENA IN WC 94%-CO 6% HARD METAL ALLOY TIPS OF RADIAL PICKS	WoS Journal

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	By:Nahak, S (Nahak, Sakuntala); Chattopadhyaya, S (Chattopadhyaya, Somnath); Dewangan, S (Dewangan, Saurabh); Hloch, S (Hloch, Sergej); Krolczyk, G (Krolczyk, Grzegorz); Legutko, S (Legutko, Stanislaw) ADVANCES IN SCIENCE AND TECHNOLOGY-RESEARCH JOURNAL Vol.11,Issue: 1,Pages: 36-47, DOI: 10.12913/22998624/68457, Published: MAR 2017,Document Type:Article	
5	Monitoring of acoustic emission during the disintegration of rock By:Tripathi, R (Tripathi, Rupam) ^[1] ; Srivastava, M (Srivastava, Madhulika) ^[1] ; Hloch, S (Hloch, Sergej) ^[2] ; Adamcik, P (Adamcik, Pavel); Chattopadhyaya, S(Chattopadhyaya, Somnath) ^[1] ; Das, AK (Das, Alok Kumar) ^[1] INTERNATIONAL CONFERENCE ON MANUFACTURING ENGINEERING AND MATERIALS, ICMEM 2016, Volume: 149,Pages: 481-488,DOI: 10.1016/j.proeng.2016.06.695,Published: 2016,Document Type:Proceedings Paper,Conference: International Conference on Manufacturing Engineering and Materials (ICMEM),Location: Novy Smokovec, SLOVAKIA,Date: JUN 06-10, 2016	WoS Proceeding
6	Assessment of Heat Affected Zone of Submerged Arc Welding Process through Digital Image Processing By:Ghosh, A (Ghosh, Aniruddha) ^[1] ; Chattopadhyaya, S (Chattopadhyaya, Somnath) ^[2] ; Das, RK (Das, R. K.) ^[2] ; Sarkar, PK (Sarkar, P. K.) ^[2] 11TH INTERNATIONAL CONFERENCE ON THE MECHANICAL BEHAVIOR OF MATERIALS (ICM11), Volume: 10,DOI: 10.1016/j.proeng.2011.04.462 Published: 2011,Document Type: Proceedings Paper, Conference: 11th International Conference on the Mechanical Behavior of Materials (ICM),Location: Como, ITALY,Date: 2011	WoS Proceeding
7	Effect of Heat input on Submerged Arc Welded Plates By:Ghosh, A (Ghosh, Aniruddha) ^[2] ; Chattopadhyaya, S (Chattopadhyaya, Somnath) ^[1] ; Das, RK (Das, R. K.) ^[1] 11TH INTERNATIONAL CONFERENCE ON THE MECHANICAL BEHAVIOR OF MATERIALS (ICM11) Volume: 10,DOI: 10.1016/j.proeng.2011.04.464, Published: 2011,Document Type:Proceedings Paper,Conference: 11th International Conference on the Mechanical Behavior of Materials (ICM),Location: Como, ITALY,Date: 2011	WoS Proceeding
8	3rd Degree Mathematical Model Appropriate for Parametric Estimation of SAW process By:Ghosh, A (Ghosh, Aniruddha) ^[1] ; Singh, NK (Singh, N. K.) ^[2] ; Chattopadhyaya, S (Chattopadhyaya, Somnath) ^[3] MATERIALS AND DESIGN, PTS 1-3 Edited by:Sang, XM; Wang, PC; Ai, L; Li, YG; Bu, JL Book Series: Advanced Materials Research Volume: 284-286,Pages: 2473-+,Part: 1-3 DOI: 10.4028/www.scientific.net/AMR.284-286.2473 Published: 2011,Document Type:Proceedings Paper,Conference: International Conference on Advanced Engineering Materials and Technology (AEMT2011),Location: Sanya, PEOPLES R CHINA,Date: JUL 29-31, 2011	WoS Proceeding
9	Prediction of HAZ Width of Submerged Arc Welded Plates By:Ghosh, A (Ghosh, Aniruddha) ^[1] ; Chattopadhyaya, S (Chattopadhyaya, Somnath) ^[2] MATERIALS AND DESIGN, PTS 1-3 Edited by:Sang, XM; Wang, PC; Ai, L; Li, YG; Bu, JL	WoS Proceeding

RESUME of S.Chattopadhyaya, Associate Professor – IIT(ISM)

	Volume: 284-286, Pages: 2481-+,Part: 1-3 DOI: 10.4028/www.scientific.net/AMR.284-286.2481 Published: 2011,Document Type:Proceedings Paper, Conference: International Conference on Advanced Engineering Materials and Technology (AEMT2011),Location: Sanya, PEOPLES R CHINA,Date: JUL 29-31, 2011	
10	Critical Analysis of Confounded Parameters of SAW Process By:Ghosh, A (Ghosh, Aniruddha)^[1]; Chattopadhyaya, S (Chattopadhyaya, Somnath)^[2]; Sarkar, PK (Sarkar, P. K.)^[2] 11TH INTERNATIONAL CONFERENCE ON THE MECHANICAL BEHAVIOR OF MATERIALS (ICM11),Volume: 10 DOI: 10.1016/j.proeng.2011.04.463,Published: 2011 Document Type:Proceedings Paper,Conference: 11th International Conference on the Mechanical Behavior of Materials (ICM),Location: Como, ITALY,Date: 2011	WoS Proceeding
11	Surface Roughness of Graphite and Aluminium Alloy After Hydro-abrasive Machining By:Carach, J (Carach, Jan)^[1]; Lehocka, D (Lehocka, Dominika)^[1,2]; Legutko, S (Legutko, Stanislaw)^[3]; Hloch, S (Hloch, Sergej)^[1,2]; Chattopadhyaya, S(Chattopadhyaya, Somnath)^[4]; Dixit, AR (Dixit, Amit R.)^[4] View ResearchID and ORCID ADVANCES IN MANUFACTURING (MANUFACTURING 2017) Edited by:Hamrol, A; Ciszak, O; Legutko, S; Jurczyk, M Book Series: Lecture Notes in Mechanical Engineering Pages: 805-813,DOI: 10.1007/978-3-319-68619-6_78 Published: 2018,Document Type:Proceedings Paper Conference, Conference: 5th International Scientific-Technical Conference (MANUFACTURING),Location: Poznan, POLAND,Date: OCT 24-26, 2017	WoS Proceeding
12	Characterization of Failure Behavior in Distorted WC-Co Tip of Coal Mining Picks By:Nahak, S (Nahak, Sakuntala)^[1]; Dewangan, S (Dewangan, Saurabh)^[2]; Chattopadhyaya, S (Chattopadhyaya, Somnath)^[3]; Hloch, S (Hloch, Sergej)^[4] JOURNAL OF FAILURE ANALYSIS AND PREVENTION Volume: 17, Issue: 1,Pages: 136-143,DOI: 10.1007/s11668-016-0220-0, Published: FEB 2017,Document Type:Article	WoS Journal
13	Investigation Into Coal Cutting Operation by Using Conical Pick of Cast Iron with LH710 Coated Tip By:Dewangan, S (Dewangan, Saurabh)^[1]; Chattopadhyaya, S (Chattopadhyaya, Somnath)^[1]; Hloch, S (Hloch, Sergej)^[2] DYNAMICS OF MACHINES AND MECHANISMS, INDUSTRIAL RESEARCH Volume: 592-594,Pages: 426-+,DOI: 10.4028/www.scientific.net/AMM.592-594.426 Published: 2014,Document Type:Proceedings Paper,Conference, Conference: 16th International Mechanical Engineering Congress (IMEC),Location: Tamil Nadu, INDIA,Date: JUN 13-15, 2014,	WoS Proceeding
14	Discussion On Ranking The Sawability Of Rocks Using A Combined Multiple Attribute Decision Making Method By:Dewangan, S (Dewangan, Saurabh)^[1]; Chattopadhyaya, S (Chattopadhyaya, Somnath)^[1] DYNAMICS OF MACHINES AND MECHANISMS, INDUSTRIAL RESEARCH Book Series: Applied Mechanics and Materials Volume: 592-594,Pages: 864-868,DOI: 10.4028/www.scientific.net/AMM.592-594.864	WoS Proceeding

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	Published: 2014,Document Type:Proceedings Paper Conference, Conference: 16th International Mechanical Engineering Congress (IMEC),Location: Tamil Nadu, INDIA,Date: JUN 13-15, 2014	
15	Prediction of weld parameters in Gas Metal Arc Welding Process using curve fitting techniques and graphical methods By: Mukhopadhyay, P (Mukhopadhyay, Prithviraj) ^[1] ; Chattopadhyaya, S (Chattopadhyaya, Somnath) ^[2] ; Bhatia, S (Bhatia, S.) ^[2] ; Singh, NK (Singh, N. K.) ^[2] ; Mukhopadhyay, AK (Mukhopadhyay, A. K.) ^[2] ADVANCES IN MATERIALS AND MATERIALS PROCESSING, PTS 1-3 Edited by: Jiang, ZY ; Liu, XH ; Jiao, SH ; Han, JT Book Series: Advanced Materials Research Volume: 652-654, Pages: 2352-+,DOI: 10.4028/www.scientific.net/AMR.652-654.2352 Published: 2013,Document Type:Proceedings Paper,Conference: 3rd International Conference on Advances in Materials Manufacturing (ICAMMP 2012) Location: Beihai, PEOPLES R CHINA,Date: DEC 22-23, 2012	WoS Proceeding
16	Prediction of Weld Bead Parameters, Transient Temperature Distribution& HAZ width of Submerged Arc Welded Structural Steel Plates By: Ghosh, A (Ghosh, Aniruddha) ^[1] ; Chattopadhyaya, S (Chattopadhyaya, Somnath) ^[2] ; Singh, NK (Singh, N. K.) ^[2] DIFFUSION IN SOLIDS AND LIQUIDS VII, Edited by: Ochsner, A ; Murch, GE ; Shokuhfar, A ; Delgado, JMPQ , Book Series: Defect and Diffusion Forum Volume: 326-328,Pages: 405-+ DOI: 10.4028/www.scientific.net/DDF.326-328.405 Published: 2012,Document Type: Proceedings Paper,Conference: 7th International Conference on Diffusion in Solids and Liquids (DSL 2011) Location: Algarve, PORTUGAL, Date: JUN 26-30, 2011	WoS Proceeding
17	Prediction of Temperature Distribution on Submerged Arc Welded Plates through Gaussian Heat Distribution Technique By: Ghosh, A (Ghosh, Aniruddha) ^[1] ; Chattopadhyaya, S (Chattopadhyaya, Somnath) ^[2] MATERIALS AND DESIGN, PTS 1-3 Volume: 284-286, Pages: 2477-+,Part: 1-3 DOI: 10.4028/www.scientific.net/AMR.284-286.2477 Published: 2011,Document Type:Proceedings Paper Conference: International Conference on Advanced Engineering Materials and Technology (AEMT2011),Location: Sanya, PEOPLES R CHINA, Date: JUL 29-31, 2011	WoS Proceeding
18	Feasibility Study of Friction Surfaced Coatings over Non-Ferrous Substrates By: Shariq, M (Shariq, Mohammed) ^[1] ; Srivastava, M (Srivastava, Madhulika) ^[1] ; Tripathi, R (Tripathi, Rupam) ^[1] ; Chattopadhyaya, S (Chattopadhyaya, Somnath) ^[1] ; Dixit, AR (Dixit, Amit Rai) ^[1] INTERNATIONAL CONFERENCE ON MANUFACTURING ENGINEERING AND MATERIALS, ICMEM 2016 Edited by: Hloch, S ; Krolczyk, G Volume: 149, Pages: 465-471, DOI: 10.1016/j.proeng.2016.06.693,Published: 2016,Document Type:Proceedings Paper, Conference: International Conference on Manufacturing Engineering and Materials (ICMEM),Location: Novy Smokovec, SLOVAKIA,Date: JUN 06-10, 2016	WoS Proceeding
19	Influence of Welding Current on Bead Shape, Mechanical and Structural Property of Tungsten Inert Gas Welded Stainless Steel Plate	WoS Proceeding

	By: Kumar, R (Kumar, Rajeev)^[1]; Chattopadhyaya, S (Chattopadhyaya, Somnath)^[1]; Kumar, S (Kumar, Sanjeev)^[2] MATERIALS TODAY-PROCEEDINGS Volume: 2, Issue: 4-5, Pages: 3342-3349, DOI: 10.1016/j.matpr.2015.07.307 Published: 2015, Document Type: Proceedings Paper, Conference: 4th International Conference on Materials Processing and Characterization (ICMPC), Location: Gokaraju Rangaraju Inst Engin & Technol, Hyderabad, INDIA, Date: MAR 14, 2015	
20	Investigation Into Coal Fragmentation Analysis by Using Conical Pick By: Dewangan, S (Dewangan, Saurabh)^[1]; Chattopadhyaya, S (Chattopadhyaya, Somnath)^[1]; Hloch, S (Hloch, Sergej)^[2] INTERNATIONAL CONFERENCE ON ADVANCES IN MANUFACTURING AND MATERIALS ENGINEERING (ICAMME 2014) Volume: 5, Pages: 2411-2417, DOI: 10.1016/j.mspro.2014.07.486 Published: 2014, Document Type: Proceedings Paper, Conference: International Conference on Advances in Manufacturing and Materials Engineering (ICAMME), Location: Mangalore, INDIA, Date: MAR 27-29, 2014	WoS Proceeding
21	Sustainable Supply Chain Management: A Case Study From Indian Automotive Industry By: Kumar, S (Kumar, Sanjeev)^[1]; Chattopadhyaya, S (Chattopadhyaya, Somnath)^[2]; Sharma, V (Sharma, Vinay)^[3] ADVANCED MANUFACTURING TECHNOLOGY, PTS 1-4 Book Author(s): Jiang, ZY (Jiang, ZY), Volume: 472-475, Pages: 3359-+, DOI: 10.4028/www.scientific.net/AMR.472-475.3359 Published: 2012, Document Type: Proceedings Paper, Conference: 3rd International Conference on Manufacturing Science and Engineering (ICMSE 2012), Location: Xiamen, PEOPLES R CHINA, Date: MAR 27-29, 2012	WoS Proceeding
22	Assessment of Heat Affected Zone of Submerged Arc Welding Process through Digital Image Processing By: Ghosh, A (Ghosh, Aniruddha)^[1]; Chattopadhyaya, S (Chattopadhyaya, Somnath)^[2]; Singh, NK (Singh, N. K.)^[2] DIFFUSION IN SOLIDS AND LIQUIDS VII Edited by: Ochsner, A; Murch, GE; Shokuhfar, A; Delgado, JMPQ Book Series: Defect and Diffusion Forum, Volume: 326-328, Pages: 400-+, DOI: 10.4028/www.scientific.net/DDF.326-328.400, Published: 2012 Document Type: Proceedings Paper, Conference: 7th International Conference on Diffusion in Solids and Liquids (DSL 2011), Location: Algarve, PORTUGAL, Date: JUN 26-30, 2011	WoS Proceeding
23	Prediction of Heat Distribution Shape and Nozzle Diameter of Plasma Arc Cutter By: Ghosh, A (Ghosh, Aniruddha)^[1]; Bhatia, S (Bhatia, Shailendra)^[2]; Chattopadhyaya, S (Chattopadhyaya, Somnath)^[3] MATERIALS AND DESIGN, PTS 1-3 Book Series: Advanced Materials Research Volume: 284-286, Pages: 2465-+, Part: 1-3, DOI: 10.4028/www.scientific.net/AMR.284-286.2465 Published: 2011, Document Type: Proceedings Paper, Conference: International Conference on Advanced Engineering Materials and Technology (AEMT2011) Location: Sanya, PEOPLES R CHINA, Date: JUL 29-31, 2011	WoS Proceeding
24	Analysis of the influence of the heat input and bead volume on HAZ Hardness for Submerged Arc Welding Process of Mild steel plates By: Ghosh, A (Ghosh, Aniruddha)^[1]; Chattopadhyaya, S (Chattopadhyaya, Somnath)^[2]	WoS Proceeding

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	Somnath)^[2]; Mukherjee, S (Mukherjee, S.)^[3] View ResearchID and ORCID MATERIALS AND DESIGN, PTS 1-3 Edited by: Sang, XM; Wang, PC; Ai, L; Li, YG; Bu, JL Book Series: Advanced Materials Research Volume: 284-286, Pages: 2469-+, Part: 1-3, DOI: 10.4028/www.scientific.net/AMR.284-286.2469, Published: 2011, Document Type: Proceedings Paper, Conference: International Conference on Advanced Engineering Materials and Technology (AEMT2011) Location: Sanya, PEOPLES R CHINA, Date: JUL 29-31, 2011	
25	Material vibration as a source of information for AWJ control By: Perzel, V (Perzel, V.)^[1]; Hreha, P (Hreha, P.)^[1]; Hloch, S (Hloch, S.)^[1]; Valicek, J (Valicek, J.)^[2]; Tozan, H (Tozan, H.)^[3]; Nemcova, J (Nemcova, J.); Sharma, V (Sharma, V.); Chattopadhyaya, S (Chattopadhyaya, S.) VODNI PAPERSEK 2011: VYZKUM, VYVOJ, APLIKACE Edited by: Sitek, L; Zelenak, M Pages: 213-223, Published: 2011, Document Type: Proceedings Paper, Conference: 2nd Conference on Water Jetting Technology: Water Jet 2011 - Research, Development, Applications, Location: Ostravice, CZECH REPUBLIC, Date: OCT 03-05, 2011	WoS Proceeding
26	Degradation analysis of gear oil SAE 90 used in load haul dumper machine Nagesh Dewangan¹, Anil Kumar Agrawal¹, Mohd A H Siddiqui² and Somnath Chattopadhyaya¹, Published under licence by IOP Publishing Ltd IOP Conference Series: Materials Science and Engineering, Volume 624, Number 1	SCOPUS Journal
27	Reliability and Maintainability Analysis of LHD Loader at Saoner Mines, Nagpur, India S Vashistha, AK Agrawal, MAH Siddiqui, S Chattopadhyaya IOP Conference Series: Materials Science and Engineering 691 (1), 012013	SCOPUS Journal
28	Expert system to select tunnel boring machine (TBM) BN Tripathi, AK Agrawal, D Ray, S Chattopadhyaya IOP Conference Series: Materials Science and Engineering 691 (1), 012012	SCOPUS Journal
29	Reliability and maintainability analysis of universal drill machine at Saoner mines, Nagpur, India K Gaurav, AK Agrawal, S Chattopadhyaya, MAH Siddiqui IOP Conference Series: Materials Science and Engineering 691 (1), 012014	SCOPUS Journal

Int. Conference outside India

- Aniruddha Ghosh, S.Chattopadhyaya "Optimum Solution of SAW Process" pp.171, proc.7th International Conference on Optimization Techniques and Applications (ICOTA7), Kobe, Japan, December 12-15, 2007.
- S.Chattopadhyaya "Object Oriented Manufacturing in a conveyor belt manufacturing unit" presented in an International conference at Dhaka, Bangladesh December, 2001.
- Dr. Alok Varma, S. Chattopadhyaya, " Eco-Friendly Manufacturing through Green Technologies", Proceeding International Conference on Manufacturing, Feb. 2000, Dhaka, Bangladesh, PP. 684-690.
- Dr.S.Kumar, S.Chattopadhyaya "Inflicting agility to tribal brassware technology", pp. 506-510, Proc. International Conference on Manufacturing ICM 2002 at Dhaka, Bangladesh August 2002.
- S.Chattopadhyaya, Dr.Alok Varma,, Dr.A.K.Basu, "Information Technology requirements for Handling and flow of Materials in a manufacturing unit ", pp. 693-701, Proc. International Conference on Manufacturing ICM 2002 at Dhaka, Bangladesh, August 2002.
- A.Ghosh, S.Chattopadhyaya, P.K.Sarkar, "Analysis of bead geometry of SAW process, Int. conference on Mechanical Engg., Dhaka". 29-31, Dec, 2007.
- Delivered a keynote address in an International Conference **ICMEM 2016** at Poprad Tatry, Slovakia during **June 2018**.

Chairing.

- Delivered a keynote address entitled " Tunnel Boring Machine in Himalayan Region", in an International Conference **ICMEM 2018** at Poprad Tatry, Slovakia during **18nd to 22nd June 2018**.

Chairing.

- Chaired one technical session at the International Conference on Manufacturing ICM 2002, at Dhaka, Bangladesh, 2002.

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2. Chaired one of the technical sessions of International Conference on advances in Mechanical Engineering, July 2010 at SVNIT Gujrat held in the month of July, 2011.
3. Chaired one of the technical sessions of National Seminar in Innovation & Creativity for Business Excellence at Indian School of Mines Dhanbad, held during 17-18 February,2011.
4. Chaired one technical session in an International Conference **ICMEM 2014** at Poprad Tatry, Slovakia during **September, 2014**.
5. Chaired one technical session in an International Conference **ICMEM 2016** at Poprad Tatry, Slovakia during **June2016**.
6. Chaired one technical session in an International Conference **ICMEM 2018** at Poprad Tatry, Slovakia during **18nd to 22nd June2018**.

Reviewer

DATE ▼	MANUSCRIPT	JOURNAL
2019-06-08	Tool life of 3D printed Al...	Engineering Resea...
2019-06-05	An Orientation Measure...	Measurement
2019-05-19	Application of Trainable ...	Measurement
2019-05-04	A Feature Extraction Met...	Measurement
2019-04-30	An Orientation Measure...	Measurement
2019-04-28	Multi-interpolation mixin...	Journal of Material...
2019-04-27	Optimization of machini...	Sadhana - Academ...
2019-04-26	Development and Applic...	Measurement
2019-04-24	Surface Integrity Aspect...	Journal of Manufa...
2019-04-23	New Approach to Increa...	Archives of Mining...
2019-04-18	Friction and Wear Measu...	Measurement
2019-04-09	Multi-interpolation mixin...	Journal of Material...
2019-03-25	Application of Trainable ...	Measurement
2019-03-13	Gap tolerance control for...	Measurement
2019-03-04	Friction stir welding of A...	-
2019-03-03	Multi-interpolation mixin...	Journal of Material...
2019-03-01	Friction and Wear Measu...	Measurement
2019-02-23	Development of Dual Oct...	Measurement

DATE ▼	MANUSCRIPT	JOURNAL
2019-02-20	A Feature Extraction Met...	Measurement
2019-02-13	Surface Integrity Aspect...	Journal of Manufa...
2019-01-31	Failure of a coal transpor...	Engineering Failur...
2019-01-28	Cutting parameters sele...	Measurement
2018-12-17	Experimental analysis an...	International Jour...
2018-12-17	Analysis of the aspects ...	Measurement
2018-12-16	Understanding Thermal ...	Optics & Laser Tec...
2018-11-20	Optimization of Multi Ca...	Measurement
2018-09-29	Numerical and Experime...	Optics & Laser Tec...
2018-09-28	Analysis of the Aspects ...	Measurement
2018-09-20	Cutting parameters sele...	Measurement
2018-08-14	Friction stir welding of A...	Measurement
2018-08-07	A Microscale Study of Th...	Lasers in Manufac...
2018-08-02	Numerical and Experime...	Optics & Laser Tec...
2018-07-25	Failure of electric resista...	Engineering Failur...
2018-07-08	Friction, wear and fatigu...	Advances in Mech...
2018-06-27	Friction stir welding of A...	Measurement
2018-06-01	Interplay and modelling ...	Proceedings of the...
2018-04-16	Evaluation of novel tool ...	Journal of Material...

DATE ▼	MANUSCRIPT	JOURNAL
	-	-
2018-03-07	Corrosion-fatigue wear o...	Wear
2018-03-05	Evaluation of novel tool ...	Journal of Material...
2018-02-16	Amalgamation Of Alumi...	International Jour...
2018-02-04	Optimization of multiple ...	Proceedings of the...
2018-02-04	Optimization of multiple ...	Journal of Mechan...
2018-02-03	Analysis of transient the...	Journal of Material...
2017-12-19	Analysis of transient the...	Journal of Material...
2017-11-29	Friction Surfacing Of Aisi...	Defence Technology
2017-11-17	Fast responsive control ...	Journal of Material...
2017-09-25	Fast responsive control ...	Journal of Material...
2017-09-18	-	Journal of the Bra...
2017-05-17	Experimental and numeri...	Journal of Material...
2017-02-28	Microstructural analysis ...	Journal of Manufa...
2017-02-19	Experimental and numeri...	Journal of Material...
2016-12-09	Numerical analysis of fu...	International Jour...
2016-11-29	Effect of Pick Working A...	Journal of the Bra...

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List of EDP Courses: (Title, Amount, Date of the Course, Role (PI/Co-PI))

Sl. No.	Title	Amount	Date of the Course	Role
1	Short course on Mining Machineries for the Afghan Professionals from the Ministry of Mines, Afghanistan	31.46 Lacs	08 th September,2013 – 23 rd September,2013	Co-PI
2	Short course on Drills and Drilling for Mineral Resources for the Officers of Atomic Mineral Directorate for exploration and Research	4.00 Lacs	12-23 November, 2012	Co-PI
3	Hydraulics in HEMM	2.5 Lacs	May 25 to 29,2009	Co-PI

Academic Interaction with outside Agencies

2017

1. Joint Organizing Secretary Indian School of Mines Alumni Association from February,2017.
2. Member of the Innovation Committee IIT(ISM).
3. Invited for giving a lecture on “Hybrid Additive Manufacturing” in a one day workshop of TEQIP-II at the department of Production Engineering, Jadavpur University on 9th March,2017.
4. Examined a PhD thesis from GLA University, Mathura.

2016

- External Examiner of PhD Scholar of KIIT University,Bhubaneshwar.
- Faculty member of the IIT(ISM) M.Tech Entrance Committee.
- Keynote speaker in an International Conference held during 6th – 10 June,2016 at Poprad,Slovakia.
- Member of the International Relations and Alumni Affairs Group of IIT(ISM).

2015

Co-convener, Indian Mineral Congress 2015.

2014

1. Co-convener of Indian Mineral Congress 2014.
2. M.Tech Examiner of BIT Mesra.

2013

1. Delivered lecture at AALTO University Finland on DOE for Welding Process on October,2013.
2. Faculty Coordinator of M.Tech Course - M.Tech (Mechanical Engineering with specialization in Manufacturing Engg.)
3. Dy. Faculty In Charge of ISM JRF Entrance Examination
4. Member of the Improvement Group of ISM Dhanbad.
5. Member of the BOCS of the Department of Management Studies.
6. Section Committee member of the Bihar and Jharkhand Chapter for 2012 – 2015 of Indian Society for Technical Education.
7. Co-convener of Indian Mineral Congress 2013.

2012

1. Convener of Basant 2012 (Annual Alumnus meet of Indian School of Mines Dhanbad).
2. Invited to deliver a Keynote address for one international conference at Slovakia in December, 2012.
3. Visiting faculty for course on Mechatronics at BIT Mesra for M.Tech students of the department of Applied Mechanics.
4. Delivered two Keynote addresses at Presov, Slovakia in an international conference on manufacturing and management during 5th – 7th December, 2012.
5. Chaired a technical session in an international conference on manufacturing and management during 5th – 7th December, 2012.

2011

1. Convener of Basant 2011 (Annual Alumnus meet of Indian School of Mines Dhanbad).
2. Co- Chair of an International Conference at Slovakia, Europe.

2010

1. External Examiner of a PhD thesis of a scholar of Jadavpur University.
2. Delivered two Keynote addresses in back to back sessions at Presov, Slovakia in an international conference on manufacturing and management during 25th -26th November, 2010.
3. Co-Convener of the national seminar on “Drills, Drilling - An update, DD&DU-2010” held during 23rd - 24th September, 2010 at the dept. of ME & MME,ISAM Dhanbad.
4. Chaired one of the technical session of the National conference on Recent Advances in Manufacturing-2010 held at SVNIT Surat in July, 2010.

2009

5. Co – Coordinator of the five days Short Term Course on Hydraulics in HEMM’ (From 25th May to 29th May, 2009).

2008

RESUME of S.Chattopadhyaya, Associate Professor – IIT(ISM)

6. Co – Coordinator of the five days Short Term Course on Hydraulics in Mining and Construction Equipment (June 09-13, 2008).
7. Invited for Lecture for the annual technical conference of TATA Rayarson on the topic of Le-agile Manufacturing.
8. Co-Convener – National Seminar on Crushing Screening & Conveying Sep.2008.
- 2002
9. Jt. Organizing secretary, 20th AIMTDR conference at BIT Mesra,2002.
10. Invited for Lecture for UGC Refresher Course in the department of Production Engineering, NIT, Jamshedpur for two occasions.
11. Invited for Lecture in Entrepreneurship development program for the ancillary Auto parts manufacturing industries organized by State Bank of India, Jamshedpur main branch.
12. Invited as an External Examiner for M.E Viva in the Department of Mechanical Engineering, Jadavpur University in one occasion.
13. Joint Organizing Secretary of the Indian Institute of Production Engineers, Jharkhand state chapter.
14. Executive Committee member of the Institution of Engineers (India) Dhanbad, Local center.
15. Section Committee member of Indian Society for Technical Education, Bihar Jharkhand chapter.

16. Presented technical papers in foreign countries in five occasions.

17. Life Member of Institute for Smart Structures and Systems (ISSS)

18. Physical Standards: Height: 5ft 8.5” Weight: 84 kg Chest : 40” Eyesight : Normal With Glasses

19. Extra Curricular Activities:

- A. Debate: Winners of Inter-school Debate Competition
- B. Mathematics: Stood 4th in the State of West Bengal in 1985 Mathematics Olympiad, represented the state
- C. Sports: Lawn Tennis (Under Twelve Champion in Shyambazar Tennis Club)
- D. Table Tennis: Champion, BIT-Mesra, 2000.
- E. Secretary – ISM Teachers Association for two years for two occasions
- F. Ex. General Secretary Scolomin Club

20. Administrative Work

- A. Associate Dean (Innovations and Incubations) from 21st May,2018
- B. Warden of a Hostel for two years
- C. Member of the Improvement group of the IIT(ISM)
- D. Course Coordinator of B.Tech final year Mechanical Engg. students

21. Patent Applied : In the domain of Friction Stir Surfacing.

- 21. References:** a) Prof.A.K.Ray, Professor & Head, Department of Applied Mechanics, Ranchi, B.I.T.Mesra – Ranchi, Pin – 835215, Contact No. 0651-2275444
- b) Dr.Bijon Sarkar, Professor, Department of Production Engineering, Jadavpur University, Kolkata, 700032, +91-033-2414-6153(o), +91-033-2414-6907(o),
- c) Dr.Jyotirmoy Saha, Professor, Department of Production Engineering, Jadavpur University, Kolkata, 700032, +91-033-2414-6153(o),

Dated : Wednesday, July 08, 2020

Signature :

(Somnath Chattopadhyaya)





