

## Amit Rai Dixit

<https://www.webofscience.com/wos/author/rid/X-4203-2019>

Web of Science ResearcherID: [X-4203-2019](#)

ORCID: 0000-0001-6135-8098

Current affiliation:

- Indian Institute of Technology (Indian School of Mines), Dhanbad

## Publication Metrics

For manuscripts published from date range February 2007 - February 2025

**37**

H-index

**5346**

Sum of Times Cited

**169**

Total Publications

**152**

Web of Science Core Collection Publications

**1**

Sum of Times Cited by Patents

---

For all time

**37**

H-index

**5390**

Sum of Times Cited

**173**

Total Publications

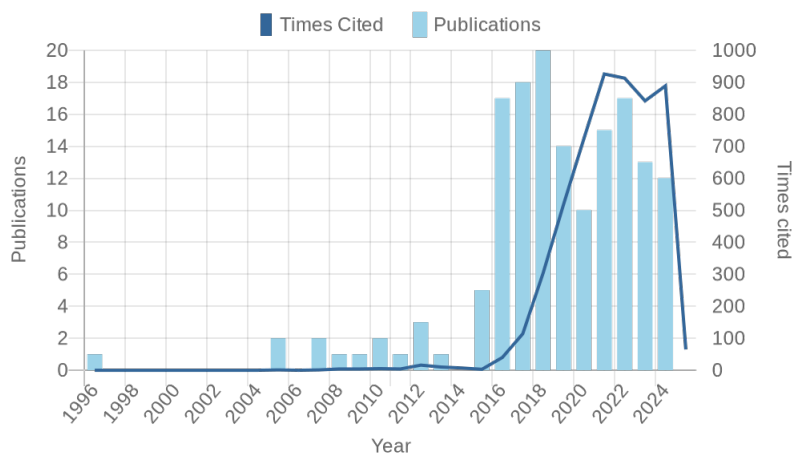
**156**

Web of Science Core Collection Publications

**4**

Sum of Times Cited by Patents

## Publication Impact Over Time



## Publishing Summary

For manuscripts published from date range February 2007 - February 2025

(20) Materials Today: Proceedings	(10) The International Journal of Adv...
(10) Materials and Manufacturing Pr...	(9) Lecture Notes in Mechanical Engi...
(5) Journal of Manufacturing Process...	(4) Materials Chemistry and Physics
(4) Coatings	(4) International Journal of Surface ...
(4) Indian Journal of Engineering an...	(3) Benchmarking
(3) International Journal of Precision...	(3) IOP Conference Series: Materials...
(3) Measurement	(3) AIP Conference Proceedings
(3) Journal of the Brazilian Society o...	(2) Polymer Composites
(2) Polymer Bulletin	(2) Additive Manufacturing
(2) Advances in Manufacturing	(2) Kovove Materialy
(2) Proceedings of the Institution of ...	(2) Materials Letters
(2) Fluid-structure-sound Interaction...	(2) Materials
(2) Journal of Materials Science	(2) Surface Engineering
(2) Science and Engineering of Com...	(2) Procedia Engineering
(2) Journal of Cleaner Production	(2) Journal of Materials Engineering ...
(1) Proceedings of the Institution of ...	(1) Machines
(1) Rapid Prototyping Journal	(1) Physica Scripta
(1) Polymers for Advanced Technolo...	(1) Wear
(1) International Journal of Agile Sys...	(1) International Journal of Mechani...
(1) International Journal of Manufact...	(1) ARPN Journal of Engineering and...

(1) International Journal of Productiv...	(1) International Journal of Applied ...
(1) International Journal of Machinin...	(1) International Journal of Product ...
(1) Clean Technologies and Environ...	(1) Colloids and Surfaces A: Physico...
(1) Facta Universitatis series Mecha...	(1) Carbon letters
(1) Journal of Non-Crystalline Solids	(1) INTERNATIONAL MULTICONFEREN...
(1) Surface Topography: Metrology a...	(1) Journal of Materials Research an...
(1) Materials Science and Engineeri...	(1) Journal of Thermal Analysis and ...
(1) Medical Hypotheses	(1) INTERNATIONAL CONFERENCE O...
(1) Journal of Modelling in Managem...	(1) Journal of Cluster Science
(1) Materials Science and Engineeri...	(1) Proceedings of the Institution of ...
(1) Composites Part A: Applied Scie...	(1) International Journal of Materials...
(1) Journal of Manufacturing Technol...	(1) Molecular Simulation
(1) Journal of Information and Optim...	(1) International Journal of Fatigue
(1) IEEE International Conference o...	(1) Composites Communications
(1) International Conference on Rec...	(1) Surface and Coatings Technology
(1) Tribology International	(1) Fullerenes, Nanotubes and Carbo...
(1) 3D Printing and Additive Manufa...	(1) Journal of Dynamic Systems, Me...
(1) Applied Surface Science	(1) Journal of Physics: Conference S...
(1) Ceramics International	(1) Renewable and Sustainable Ener...
(1) Applied Soft Computing	(1) Chemical Engineering Journal
(1) Soviet Powder Metallurgy and M...	

## Publications

For manuscripts published from date range February 2007 - February 2025  
(169)

Times Cited  
(All time)

Tensile, Flexural, and Compressive Strength of Natural and Glass Fabric Composites Fabricated Using Vat-Photopolymerization Additive Manufacturing

0

Authors (6): Raj, Ratnesh; Moharana, Annada Prasad ... Gorski, Filip

Published: Nov 2024 in Journal of Materials Engineering and Performance

DOI: 10.1007/S11665-024-10424-7

Drop-weight impact and compressive behavior of graphene-based carbon fiber-reinforced polymer composites Authors (3): Kumar, Amit; Sharma, Kamal; Dixit, A. R. Published: Nov 2024 in Polymer Bulletin DOI: 10.1007/S00289-024-05451-2	0
MAXIMIZATION OF WEAR RATES THROUGH EFFECTIVE CONFIGURATION OF STANDOFF DISTANCE AND HYDRAULIC PARAMETERS IN ULTRASONIC PULSATING WATERJET Authors (6): Nag, Akash; Dixit, Amit Rai ... Hloch, Sergej Published: Aug 2024 in Facta Universitatis series Mechanical Engineering DOI: 10.22190/FUME220523045N	5
Investigation on the thermal behavior of g-C3N4/MoS2 nanocomposite produced by microwave-assisted method Authors (5): Saxena, Mukul; Sharma, Anuj Kumar ... Singh, Monika Published: Jul 2024 in Clean Technologies and Environmental Policy DOI: 10.1007/S10098-024-02929-5	0
A Relationship Between Manufacturing Routes-Microstructure-Biotribology of Selective Laser Melted Stainless Steel 316L Under Dry and Simulated Body Fluid Authors (3): Dwivedi, Suryank; Dixit, Amit Rai; Das, Alok Kumar Published: Jul 2024 in International Journal of Precision Engineering and Manufacturing-Green Technology DOI: 10.1007/S40684-023-00578-5	4
Characterizing polydimethylsiloxane-carbon nanotubes composites manufactured using material extrusion additive technology: A rheological and mechanical analysis Authors (2): Raj, Ratnesh; Dixit, Amit Rai Published: Apr 2024 in Materials Letters DOI: 10.1016/J.MATLET.2024.136019	2
Mechanical properties of additively manufactured polymeric composites using sheet lamination technique and fused deposition modeling: A review Authors (3): Kumar, Amit; Dixit, A. R.; Sreenivasa, S. Published: Apr 2024 in Polymers for Advanced Technologies DOI: 10.1002/PAT.6396	4
Machine learning models for prediction of electrochemical properties in supercapacitor electrodes using MXene and graphene nanoplatelets Authors (9): Shariq, Mohammed; Marimuthu, Sathish ... Grace, Andrews Nirmala Published: Mar 2024 in Chemical Engineering Journal DOI: 10.1016/J.CEJ.2024.149502	8

<p>Predicting dimensional accuracy in 3D printed polydimethylsiloxane-carbon nanotubes composites via machine learning</p> <p>Authors (4): Raj, Ratnesh; Mahato, Satyajit ... Dixit, Amit Rai</p> <p>Published: Mar 2024 in Polymer Composites</p> <p>DOI: 10.1002/PC.27963</p>	2
<p>Jettability and printability of customized gold nanoparticles-based ink on flexible substrate through inkjet printing process</p> <p>Authors (8): Shariq, Mohammed; Rudolf, Rebeka ... Dixit, Amit Rai</p> <p>Published: Feb 2024 in Colloids and Surfaces A: Physicochemical and Engineering Aspects</p> <p>DOI: 10.1016/J.COLSURFA.2023.132837</p>	1
<p>Design and Fabrication of Flexible Woodpile Structured Nanocomposite for Microwave Absorption Using Material Extrusion Additive Technique</p> <p>Authors (3): Raj, Ratnesh; Moharana, Annada Prasad; Dixit, Amit Rai</p> <p>Published: Jan 2024 in Additive Manufacturing</p> <p>DOI: 10.1016/J.ADDMA.2023.103935</p>	6
<p>Investigation on Bonding Strength and Tribological Performances of Ceramic Laminated AA6063 Composite Developed by Friction Stir Additive Manufacturing</p> <p>Authors (5): Prajapati, Ravi; Dwivedi, Suryank ... Dixit, Amit Rai</p> <p>Published: Jan 2024 in International Journal of Precision Engineering and Manufacturing-Green Technology</p> <p>DOI: 10.1007/S40684-023-00545-0</p>	9
<p>Fabrication of continuous woven E-glass fiber composite using vat photopolymerization additive manufacturing process</p> <p>Authors (3): Moharana, Annada Prasad; Raj, Ratnesh; Dixit, Amit Rai</p> <p>Published: Nov 2023 in Rapid Prototyping Journal</p> <p>DOI: 10.1108/RPJ-02-2023-0062</p>	6
<p>Electroless Ni-P-MoS<sub>2</sub> composite coating of Al-alloys: effect of surface textures and bath composition</p> <p>Authors (5): Mohanty, Shalini; Singh, Garima ... Singh, Rabesh Kumar</p> <p>Published: Oct 2023 in Physica Scripta</p> <p>DOI: 10.1088/1402-4896/ACF80B</p>	0
<p>Effect of glass fiber reinforcement on compressive strength of photopolymer composite fabricated using vat-photopolymerization additive technique: An experimental and modeling approach</p> <p>Authors (5): Moharana, Annada Prasad; Kumar, Siddharth ... Dixit, Amit Rai</p> <p>Published: Sep 2023 in Polymer Composites</p> <p>DOI: 10.1002/PC.27768</p>	7
<p>An empirical investigation on the deployment of operational excellence in SMEs</p> <p>Authors (6): Mahato, Satyajit; Dixit, Amit Rai ... Jamwal, Anbesh</p> <p>Published: Sep 2023 in Benchmarking</p> <p>DOI: 10.1108/BIJ-05-2022-0297</p>	4

<p>An investigation on microstructural features and bonding strength of magnesium-based multifunctional laminated composite developed by friction stir additive manufacturing</p> <p>Authors (5): Dixit, Amit Rai; Srivastava, Ashish Kumar ... Hloch, Sergej</p> <p>Published: Sep 2023 in The International Journal of Advanced Manufacturing Technology</p> <p>DOI: 10.1007/S00170-023-11911-2</p>	6
<p>Effects of Abrasive Waterjet Machining on the Quality of the Surface Generated on a Carbon Fibre Reinforced Polymer Composite</p> <p>Authors (7): Rowe, Andrew; Pramanik, Alokesh ... Radhika, N.</p> <p>Published: Jul 2023 in Machines</p> <p>DOI: 10.3390/MACHINES11070749</p>	8
<p>Effect of eggshell powder on the microstructural and thermal behavior of Al7075/waste eggshell surface composites produced by solid-state friction stir processing developed for potential thermal applications</p> <p>Authors (5): Srivastava, Ashish Kumar; Nag, Akash ... Hloch, Sergej</p> <p>Published: Jul 2023 in The International Journal of Advanced Manufacturing Technology</p> <p>DOI: 10.1007/S00170-023-11600-0</p>	6
<p>Microstructural, mechanical and tribological performance of a magnesium alloy AZ31B/Si3N4/eggshell surface composite produced by solid-state multi-pass friction stir processing</p> <p>Authors (6): Srivastava, Ashish Kumar; Dwivedi, Suryank ... Hloch, Sergej</p> <p>Published: Jun 2023 in Materials Chemistry and Physics</p> <p>DOI: 10.1016/J.MATCHEMPHYS.2023.127694</p>	12
<p>A Novel Additive Texturing of Stainless Steel 316L Through Binder Jetting Additive Manufacturing</p> <p>Authors (4): Dwivedi, Suryank; Dixit, Amit Rai ... Nag, Akash</p> <p>Published: Mar 2023 in International Journal of Precision Engineering and Manufacturing-Green Technology</p> <p>DOI: 10.1007/S40684-023-00508-5</p>	13
<p>Research Progress in Metals and Alloys by Thermal Layering and Deposition</p> <p>Authors (2): Srivastava, Ashish Kumar; Dixit, Amit Rai</p> <p>Published: Feb 2023 in Coatings</p> <p>DOI: 10.3390/COATINGS13020366</p>	0
<p>The role of social entrepreneurial leadership and benchmarking in women empowerment</p> <p>Authors (4): Dixit, Abha R.; Malik, Nishtha ... Sethi, Deepa</p> <p>Published: Jan 2023 in Benchmarking</p> <p>DOI: 10.1108/BIJ-08-2021-0493</p>	9

<p>An Investigation for Minimizing the Wear Loss of Microwave-Assisted Synthesized g-C3N4/MoS2 Nanocomposite Coated Substrate</p> <p>Authors (5): Saxena, Mukul; Sharma, Anuj Kumar ... Dixit, Amit Rai</p> <p>Published: Jan 2023 in Coatings</p> <p>DOI: 10.3390/COATINGS13010118</p>	9
<p>Time-dependent wetting behavior of the micro-textured stainless steel 316L using the mechanical indentation method</p> <p>Authors (4): Dwivedi, Suryank; Dixit, Amit Rai ... Srivastava, Ashish Kumar</p> <p>Published: 2023 in Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</p> <p>DOI: 10.1177/09544089231205782</p>	1
<p>Comparative study on electroless composite coatings of textured and untextured Al-substrates</p> <p>Authors (5): Garima Singh; Shalini Mohanty ... Anuj Kumar Sharma</p> <p>Published: 2023 in Materials Today: Proceedings</p> <p>DOI: 10.1016/J.MATPR.2022.12.079</p>	<div>Not indexed in the Web of Science</div>
<p>Print parameter optimization and mechanical deformation analysis of alumina-nanoparticle doped photocurable nanocomposites fabricated using vat-photopolymerization based additive technology</p> <p>Authors (4): Raj, Ratnesh; Dixit, Amit Rai ... Paul, Sudeep</p> <p>Published: Dec 2022 in Additive Manufacturing</p> <p>DOI: 10.1016/J.ADDMA.2022.103201</p>	21
<p>Microwave-Assisted Synthesis, Characterization and Tribological Properties of a g-C3N4/MoS2 Nanocomposite for Low Friction Coatings</p> <p>Authors (7): Saxena, Mukul; Sharma, Anuj Kumar ... Hloch, Sergej</p> <p>Published: Dec 2022 in Coatings</p> <p>DOI: 10.3390/COATINGS12121840</p>	13
<p>Effects of various functional groups in graphene on the tensile and flexural properties of epoxy nanocomposites: a comparative study</p> <p>Authors (3): Kumar, Amit; Sharma, Kamal; Dixit, Amit Rai</p> <p>Published: Nov 2022 in Fullerenes, Nanotubes and Carbon Nanostructures</p> <p>DOI: 10.1080/1536383X.2022.2077332</p>	11
<p>Machining performance and sustainability analysis of PMEDM process using green dielectric fluid</p> <p>Authors (5): Bajaj, Rajesh; Tiwari, Arun Kumar ... Dixit, Amit Rai</p> <p>Published: Nov 2022 in Journal of the Brazilian Society of Mechanical Sciences and Engineering</p> <p>DOI: 10.1007/S40430-022-03878-0</p>	8
<p>A comparative study of spark assisted bending process using teaching-learning based optimization, desirability approach and genetic algorithm</p> <p>Authors (4): Tiwari, Tanmay; Nag, Akash ... Dixit, Amit Rai</p> <p>Published: Nov 2022 in Applied Soft Computing</p> <p>DOI: 10.1016/J.ASOC.2022.109712</p>	7

<p><b>Tribological Characteristics of Al359/Si3N4/Eggshell Surface Composite Produced by Friction Stir Processing</b></p> <p>Authors (8): Srivastava, Ashish Kumar; Dwivedi, Suryank ... Verma, Rajesh</p> <p>Published: Sep 2022 in Coatings</p> <p>DOI: 10.3390/COATINGS12091362</p>	9
<p><b>Numerical and Experimental Mechanical Analysis of Additively Manufactured Ankle-Foot Orthoses</b></p> <p>Authors (7): Raj, Ratnesh; Dixit, Amit Rai ... Gorski, Filip</p> <p>Published: Sep 2022 in Materials</p> <p>DOI: 10.3390/MA15176130</p>	19
<p><b>Additive texturing of metallic implant surfaces for improved wetting and biotribological performance</b></p> <p>Authors (4): Dwivedi, Suryank; Dixit, Amit Rai ... Adamczuk, Krzysztof</p> <p>Published: Sep 2022 in Journal of Materials Research and Technology</p> <p>DOI: 10.1016/J.JMRT.2022.08.029</p>	23
<p><b>Tensile, flexural and interlaminar shear strength of carbon fiber reinforced epoxy composites modified by graphene</b></p> <p>Authors (3): Kumar, Amit; Sharma, Kamal; Dixit, Amit Rai</p> <p>Published: Aug 2022 in Polymer Bulletin</p> <p>DOI: 10.1007/S00289-022-04413-W</p>	13
<p><b>Wire Arc Additive Manufacturing – A revolutionary method in additive manufacturing</b></p> <p>Authors (7): Nilesh Kumar; Het Bhavsar ... Amit Rai Dixit</p> <p>Published: Jun 2022 in Materials Chemistry and Physics</p> <p>DOI: 10.1016/J.MATCHEMPHYS.2022.126144</p>	<div>Not indexed in the Web of Science</div>
<p><b>Direct Ink Writing of Carbon-Doped Polymeric Composite Ink: A Review on Its Requirements and Applications</b></p> <p>Authors (2): Raj, Ratnesh; Dixit, Amit Rai</p> <p>Published: May 2022 in 3D Printing and Additive Manufacturing</p> <p>DOI: 10.1089/3DP.2021.0209</p>	16
<p><b>Investigation on the friction stir assisted lap joining of pure copper and aluminium 6063 alloy</b></p> <p>Authors (7): Prakash, Om; Dwivedi, Suryank ... Dixit, Amit Rai</p> <p>Published: May 2022 in Materials Today: Proceedings</p> <p>DOI: 10.1016/J.MATPR.2022.04.716</p>	4
<p><b>Experimental investigation on material removal rate, kerf width, surface roughness and the dimensional accuracy the accuracy of hole in Inconel 718 using wire electric discharge</b></p> <p>Authors (7): Nair, Harsh; Pramanik, A. ... Dixit, Amit Rai</p> <p>Published: Apr 2022 in Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</p> <p>DOI: 10.1177/09544089221096025</p>	9



<p>Selective surface modification of SS304 using hybrid powder-mixed EDC process</p> <p>Authors (4): Yadav, Abhishek; Mohanty, Shalini ... Dixit, Amit Rai</p> <p>Published: Jan 2022 in Surface Engineering</p> <p>DOI: 10.1080/02670844.2022.2044634</p>	11
<p>Comparing Theoretical and Practical Aspects of Process Management Practices for Competitive Potential in SMEs</p> <p>Authors (3): Mahato, Satyajit; Dixit, Amit Rai; Agrawal, Rajeev</p> <p>Published: 2022 in Lecture Notes in Mechanical Engineering</p> <p>DOI: 10.1007/978-981-16-5281-3_37</p>	0
<p>Development of a Mathematical Model for the Software Defect Rework Process to Optimize Defect Rework-A Six-Sigma Case Study</p> <p>Authors (3): Mahato, Satyajit; Dixit, Amit Rai; Agrawal, Rajeev</p> <p>Published: 2022 in Lecture Notes in Mechanical Engineering</p> <p>DOI: 10.1007/978-981-16-5281-3_38</p>	1
<p>Wetting behavior of selective laser melted (SLM) bio-medical grade stainless steel 316L</p> <p>Authors (3): Dwivedi, Suryank; Dixit, Amit Rai; Das, Alok Kumar</p> <p>Published: 2022 in Materials Today: Proceedings</p> <p>DOI: 10.1016/J.MATPR.2021.12.046</p>	34
<p>Microstructural and tribo-mechanical investigation of as-cast Ti-Zr binary alloys</p> <p>Authors (6): Biswas, Pritam; Bapanapalle, Chandra Obulesu ... Meikap, Ajit Kumar</p> <p>Published: 2022 in Materials Today: Proceedings</p> <p>DOI: 10.1016/J.MATPR.2022.06.107</p>	3
<p>Investigation on the thermal behaviour of AZ31B/waste eggshell surface composites produced by friction stir processing</p> <p>Authors (3): Srivastava, Ashish Kumar; Saxena, Ambuj; Dixit, Amit Rai</p> <p>Published: Dec 2021 in Composites Communications</p> <p>DOI: 10.1016/J.COCO.2021.100912</p>	15
<p>Surface Topography Analysis of Mg-Based Composites with Different Nanoparticle Contents Disintegrated Using Abrasive Water Jet</p> <p>Authors (7): Mardi, Kumari Bimla; Dixit, Amit Rai ... Hloch, Sergej</p> <p>Published: Oct 2021 in Materials</p> <p>DOI: 10.3390/MA14195471</p>	4
<p>Influence of tool materials on surface modification using mu EDC process</p> <p>Authors (3): Mohanty, Shalini; Das, Alok Kumar; Dixit, Amit Rai</p> <p>Published: Sep 2021 in Surface Engineering</p> <p>DOI: 10.1080/02670844.2021.1900518</p>	12

Investigation of mechanical and tribological properties of electroless Ni-P-B ternary coatings on steel Authors (4): Biswas, Pritam; Samanta, Suprakash ... Sahoo, Rashmi Ranjan Published: Sep 2021 in Surface Topography: Metrology and Properties DOI: 10.1088/2051-672X/AC11C9	6
Influence of the frequency and flow rate of a pulsating water jet on the wear damage of tantalum Authors (5): Nag, Akash; Hvizdos, Pavol ... Hloch, Sergej Published: Jul 2021 in Wear DOI: 10.1016/J.WEAR.2021.203893	21
20th Century Uninterrupted Growth in Friction Stir Processing of Lightweight Composites and Alloys Authors (7): Srivastava, Ashish Kumar; Dixit, Amit Rai ... Bajaj, Rajesh Published: Jul 2021 in Materials Chemistry and Physics DOI: 10.1016/J.MATCHEMPHYS.2021.124572	26
A review on the mechanical properties of polymer composites reinforced by carbon nanotubes and graphene Authors (3): Kumar, Amit; Sharma, Kamal; Dixit, Amit Rai Published: Apr 2021 in Carbon letters DOI: 10.1007/S42823-020-00161-X	211
On-Line Monitoring of In-Vitro Application of PWJ for Bone Cement Disintegration Authors (3): Nag, Akash; Hloch, Sergej; Dixit, Amit Rai Published: Mar 2021 in Lecture Notes in Mechanical Engineering DOI: 10.1007/978-3-030-71956-2_9	2
Enhancement of Surface Properties of High Speed Steel Using Powder Mixed Micro-electrical Discharge Process Authors (4): Mohanty, Shalini; Bhattacharyya, Partha ... Dixi, Amit Rai Published: Mar 2021 in Lecture Notes in Mechanical Engineering DOI: 10.1007/978-3-030-71956-2_30	0
Effect of Acoustic Chamber Length on Disintegration of Ductile Material with Pulsating Water Jet Authors (5): Nag, Akash; Hloch, Sergej ... Dixit, Amit Rai Published: Mar 2021 in Lecture Notes in Mechanical Engineering DOI: 10.1007/978-3-030-71956-2_11	0
Microstructural and fractographic analysis of A359/Si3N4 surface composite produced by friction stir processing Authors (6): Srivastava, Ashish K.; Maurya, Manish ... Dixit, Amit R. Published: Feb 2021 in International Journal of Materials Research (formerly Zeitschrift Fuer Metallkunde) DOI: 10.1515/IJMR-2020-78277753	14

<p>Surface integrity and residual stress analysis of mu EDM coated Ti-alloy miniature components</p> <p>Authors (3): Mohanty, Shalini; Das, Alok Kumar; Dixit, Amit Rai</p> <p>Published: Jan 2021 in Materials and Manufacturing Processes</p> <p>DOI: 10.1080/10426914.2020.1813894</p>	20
<p>Experimental investigations of A359/Si3N4 surface composite produced by multi-pass friction stir processing</p> <p>Authors (6): Srivastava, Ashish Kumar; Maurya, Nagendra Kumar ... Maurya, Manish</p> <p>Published: Jan 2021 in Materials Chemistry and Physics</p> <p>DOI: 10.1016/J.MATCHEMPHYS.2020.123717</p>	37
<p>Friction stir additive manufacturing - An innovative tool to enhance mechanical and microstructural properties</p> <p>Authors (3): Srivastava, Ashish Kumar; Kumar, Nilesh; Dixit, Amit Rai</p> <p>Published: Jan 2021 in Materials Science and Engineering B</p> <p>DOI: 10.1016/J.MSEB.2020.114832</p>	120
<p>A study on parametric optimization of Micro-electrical discharge coating process using response surface methodology</p> <p>Authors (4): Mohanty, Shalini; Bhushan, Brij ... Dixit, Amit Rai</p> <p>Published: 2021 in Materials Today: Proceedings</p> <p>DOI: 10.1016/J.MATPR.2020.07.415</p>	7
<p>Role of graphene in biosensor and protective textile against viruses</p> <p>Authors (3): Kumar, Amit; Sharma, Kamal; Dixit, Amit Rai</p> <p>Published: Nov 2020 in Medical Hypotheses</p> <p>DOI: 10.1016/J.MEHY.2020.110253</p>	18
<p>Machining performance enhancement of powder mixed electric discharge machining using Green dielectric fluid</p> <p>Authors (3): Bajaj, Rajesh; Dixit, Amit Rai; Tiwari, Arun Kumar</p> <p>Published: Sep 2020 in Journal of the Brazilian Society of Mechanical Sciences and Engineering</p> <p>DOI: 10.1007/S40430-020-02597-8</p>	24
<p>Investigations on bending of micro-thin sheets using spark discharges</p> <p>Authors (3): Tiwari, Tanmay; Nag, Akash; Dixit, Amit Rai</p> <p>Published: Sep 2020 in Materials and Manufacturing Processes</p> <p>DOI: 10.1080/10426914.2020.1772488</p>	13
<p>Utilization of ultrasonically forced pulsating water jet decaying for bone cement removal</p> <p>Authors (4): Nag, Akash; Hloch, Sergej ... Pude, Frank</p> <p>Published: Sep 2020 in The International Journal of Advanced Manufacturing Technology</p> <p>DOI: 10.1007/S00170-020-05892-9</p>	27

Quantitative analysis of bubble size and electrodes gap at different dielectric conditions in powder mixed EDM process Authors (4): Kumar, Amit; Mandal, Amitava ... Mandal, Deepak Kumar Published: Apr 2020 in The International Journal of Advanced Manufacturing Technology DOI: 10.1007/S00170-020-05189-X	14
Characterization of AuNPs based ink for inkjet printing of low cost paper based sensors Authors (4): Shariq, Mohammed; Chattopadhyaya, Somnath ... Dixit, Amit Rai Published: Apr 2020 in Materials Letters DOI: 10.1016/J.MATLET.2020.127332	15
Study of surface integrity and effect of process parameters in wire electrical discharge turning of Ti-6Al-4V Authors (5): Nag, Akash; Srivastava, Ashish Kumar ... Das, Alok Kumar Published: Apr 2020 in Indian Journal of Engineering and Materials Sciences	3
Machining performance enhancement of EN-31 diesteel using MWCNT mixed rotary EDM Authors (4): Bajaj, Rajesh; Dixit, Amit Rai ... Chauhan, Nitin Kumar Published: Apr 2020 in Indian Journal of Engineering and Materials Sciences	7
Carbon nanotube- and graphene-reinforced multiphase polymeric composites: review on their properties and applications Authors (3): Kumar, Amit; Sharma, Kamal; Dixit, Amit Rai Published: Mar 2020 in Journal of Materials Science DOI: 10.1007/S10853-019-04196-Y	204
Measurement of machining forces and surface roughness in turning of AISI 304 steel using alumina-MWCNT hybrid nanoparticles enriched cutting fluid Authors (4): Sharma, Anuj Kumar; Tiwari, Arun Kumar ... Singh, Rabesh Kumar Published: Jan 2020 in Measurement DOI: 10.1016/J.MEASUREMENT.2019.107078	67
Production of hard and lubricating surfaces on miniature components through micro-EDM process Authors (4): Mohanty, Shalini; Bhushan, Brij ... Dixit, Amit Rai Published: Dec 2019 in The International Journal of Advanced Manufacturing Technology DOI: 10.1007/S00170-019-04380-Z	19
Acoustic chamber length performance analysis in ultrasonic pulsating water jet erosion of ductile material Authors (8): Nag, Akash; Hloch, Sergej ... Mueller, Miroslav Published: Nov 2019 in Journal of Manufacturing Processes DOI: 10.1016/J.JMAPRO.2019.10.008	33

<p>A review on the mechanical and thermal properties of graphene and graphene-based polymer nanocomposites: understanding of modelling and MD simulation</p> <p>Authors (3): Kumar, Amit; Sharma, Kamal; Dixit, Amit Rai</p> <p>Published: Oct 2019 in Molecular Simulation</p> <p>DOI: 10.1080/08927022.2019.1680844</p>	110
<p>A review of the mechanical and thermal properties of graphene and its hybrid polymer nanocomposites for structural applications</p> <p>Authors (3): Kumar, Amit; Sharma, Kamal; Dixit, Amit Rai</p> <p>Published: Apr 2019 in Journal of Materials Science</p> <p>DOI: 10.1007/S10853-018-03244-3</p>	367
<p>Surface integrity in wire-EDM tangential turning of in situ hybrid metal matrix composite A359/B4C/Al2O3</p> <p>Authors (7): Srivastava, Ashish Kumar; Nag, Akash ... Pachauri, Praveen</p> <p>Published: Jan 2019 in Science and Engineering of Composite Materials</p> <p>DOI: 10.1515/SECM-2017-0391</p>	15
<p>Surface modification of Ti-alloy by micro-electrical discharge process using tungsten disulphide powder suspension</p> <p>Authors (4): Mohanty, Shalini; Kumar, Vishnu ... Dixit, Amit Rai</p> <p>Published: Jan 2019 in Journal of Manufacturing Processes</p> <p>DOI: 10.1016/J.JMAPRO.2018.11.007</p>	73
<p>Hardness measurement of surfaces on hybrid metal matrix composite created by turning using an abrasive water jet and WED</p> <p>Authors (8): Srivastava, Ashish Kumar; Nag, Akash ... Tiwari, Sandeep</p> <p>Published: Jan 2019 in Measurement</p> <p>DOI: 10.1016/J.MEASUREMENT.2018.09.026</p>	23
<p>Effect of Frequency Change During Pulsed Waterjet Interaction with Stainless Steel</p> <p>Authors (8): Srivastava, Madhulika; Hloch, Sergej ... Klich, Jiri</p> <p>Published: 2019 in Lecture Notes in Mechanical Engineering</p> <p>DOI: 10.1007/978-3-319-99353-9_10</p>	7
<p>Comparison in the performance of EDM and NPMEDM using Al2O3 nanopowder as an impurity in DI water dielectric</p> <p>Authors (6): Kumar, Amit; Mandal, Amitava ... Ranjan, Rachit</p> <p>Published: 2019 in The International Journal of Advanced Manufacturing Technology</p> <p>DOI: 10.1007/S00170-018-3126-Z</p>	42
<p>An Investigation on Tool Flank Wear Using Alumina/MoS2 Hybrid Nanofluid in Turning Operation</p> <p>Authors (5): Sharma, Anuj Kumar; Singh, Rabesh Kumar ... Singh, Mahip</p> <p>Published: 2019 in Lecture Notes in Mechanical Engineering</p> <p>DOI: 10.1007/978-3-319-99353-9_23</p>	11

<p>Parametric Study During Abrasive Water Jet Turning of Hybrid Metal Matrix Composite</p> <p>Authors (5): Srivastava, Ashish Kumar; Nag, Akash ... Srivastava, Vishal Shankar</p> <p>Published: 2019 in Fluid-structure-sound Interactions and Control</p> <p>DOI: 10.1007/978-3-319-99353-9_9</p>	16
<p>Investigation on Pulsating Liquid Jet with Physiological Saline on Aluminium Surface</p> <p>Authors (4): Nag, Akash; Hloch, Sergej ... Cuha, Dominik</p> <p>Published: 2019 in Lecture Notes in Mechanical Engineering</p> <p>DOI: 10.1007/978-3-319-99353-9_8</p>	6
<p>Additive Printing of Gold Nanoparticles on Paper Substrate Through Office Ink-Jet Printer</p> <p>Authors (7): Shariq, Mohammed; Dixit, Amit Rai ... Rudolf, Rebeka</p> <p>Published: 2019 in Fluid-structure-sound Interactions and Control</p> <p>DOI: 10.1007/978-3-319-99353-9_24</p>	0
<p>Design and simulation of DGS based multi band filter for wireless applications</p> <p>Authors (5): Kumar, Kapil; Dixit, Amit ... Agarwal, Neera</p> <p>Published: 2019 in Journal of Information and Optimization Sciences</p> <p>DOI: 10.1080/02522667.2019.1582876</p>	1
<p>Residual stress and surface properties of stainless steel welded joints induced by ultrasonic pulsed water jet peening</p> <p>Authors (6): Srivastava, Madhulika; Hloch, Sergej ... Foldyna, Josef</p> <p>Published: Oct 2018 in Measurement</p> <p>DOI: 10.1016/J.MEASUREMENT.2018.06.012</p>	68
<p>Parametric study and characterization of AlN-Ni-Ti6Al4V composite cladding on titanium alloy</p> <p>Authors (4): Kumar, Shakti; Mandal, Amitava ... Dixit, Amit R.</p> <p>Published: Sep 2018 in Surface and Coatings Technology</p> <p>DOI: 10.1016/J.SURFCOAT.2018.05.053</p>	41
<p>Effect of multi-walled carbon nanotubes based nanofluid on surface roughness and cutting temperature in turning operation using minimum quantity lubrication</p> <p>Authors (10): Singh, R.K.; Sharma, A.K. ... Das, A.K.</p> <p>Published: Jul 2018 in IOP Conference Series: Materials Science and Engineering</p> <p>DOI: 10.1088/1757-899X/377/1/012017</p>	6
<p>Surface alloying using tungsten disulphide powder mixed in dielectric in micro-EDM on Ti6Al4V</p> <p>Authors (7): Shalini Mohanty; Vishnu Kumar ... Amit Rai Dixit</p> <p>Published: Jul 2018 in IOP Conference Series: Materials Science and Engineering</p> <p>DOI: 10.1088/1757-899X/377/1/012040</p>	<div>Not indexed in the Web of Science</div>

<b>Prediction of temperature distribution over cutting tool with alumina-MWCNT hybrid nanofluid using computational fluid dynamics (CFD) analysis</b> Authors (3): Sharma, Anuj Kumar; Tiwari, Arun Kumar; Dixit, Amit Rai Published: Jul 2018 in The International Journal of Advanced Manufacturing Technology DOI: 10.1007/S00170-018-1946-5	32
<b>Parametric investigation on abrasive waterjet machining of alumina ceramic using response surface methodology</b> Authors (8): Tiwari, T.; Sourabh, S. ... Srivastava, A.K. Published: Jun 2018 in IOP Conference Series: Materials Science and Engineering DOI: 10.1088/1757-899X/377/1/012005	12
<b>Ultrasonically generated pulsed water jet peening of austenitic stainless-steel surfaces</b> Authors (10): Srivastava, Madhulika; Hloch, Sergej ... Adamcik, Pavel Published: Apr 2018 in Journal of Manufacturing Processes DOI: 10.1016/J.JMAPRO.2018.03.016	67
<b>Novel uses of alumina/graphene hybrid nanoparticle additives for improved tribological properties of lubricant in turning operation</b> Authors (5): Sharma, Anuj Kumar; Tiwari, Arun Kumar ... Singh, Mahip Published: Mar 2018 in Tribology International DOI: 10.1016/J.TRIBOINT.2017.10.036	140
<b>Hybrid aluminium matrix composite AWJ turning using olivine and Barton garnet</b> Authors (9): Nag, Akash; Scucka, Jiri ... Zelenak, Michal Published: Feb 2018 in The International Journal of Advanced Manufacturing Technology DOI: 10.1007/S00170-017-1036-0	44
<b>Processing of duplex stainless steel by WEDM</b> Authors (4): Pramanik, A.; Basak, A. K. ... Chattopadhyaya, S. Published: Jan 2018 in Materials and Manufacturing Processes DOI: 10.1080/10426914.2018.1453165	24
<b>Surface Roughness of Graphite and Aluminium Alloy After Hydro-abrasive Machining</b> Authors (6): Carach, Jan; Lehocka, Dominika ... Dixit, Amit R. Published: 2018 in Lecture Notes in Mechanical Engineering DOI: 10.1007/978-3-319-68619-6_78	12
<b>Surface alloying of miniature components by micro-electrical discharge process</b> Authors (8): Prakash, Ved; Shubham ... Dixit, A. R. Published: 2018 in Materials and Manufacturing Processes DOI: 10.1080/10426914.2017.1364755	32

<p>Tribological properties of Al 7075 alloy and Al 7075 metal matrix composite reinforced with SiC, sliding under dry, oil lubricated, and inert gas environments</p> <p>Authors (3): Shrivastava, Anil K.; Singh, Kalyan K.; Dixit, Amit R.</p> <p>Published: 2018 in Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</p> <p>DOI: 10.1177/1350650117726631</p>	17
<p>A review on the intensification of metal matrix composites and its nonconventional machining</p> <p>Authors (3): Srivastava, Ashish Kumar; Dixit, Amit Rai; Tiwari, Sandeep</p> <p>Published: 2018 in Science and Engineering of Composite Materials</p> <p>DOI: 10.1515/SECM-2015-0287</p>	44
<p>Effect of Al<sub>2</sub>O<sub>3</sub> nanoparticles on tribological behaviour of Mg-6Al alloy-based nanocomposites</p> <p>Authors (4): K. Bimla Mardi; Amit Rai Dixit ... A. Ramana Reddy</p> <p>Published: 2018 in International Journal of Surface Science and Engineering</p> <p>DOI: 10.1504/IJSURFSE.2018.096751</p>	<div>Not indexed in the Web of Science</div>
<p>Tribological Characteristics of Magnesium-based Nanocomposite</p> <p>Authors (4): Mardi, K. Bimla; Reddy, A. Ramana ... Mallick, Ashish</p> <p>Published: 2018 in Materials Today: Proceedings</p> <p>DOI: 10.1016/J.MATPR.2018.02.295</p>	0
<p>Effect of Al<sub>2</sub>O<sub>3</sub> nanoparticles on tribological behaviour of Mg-6Al alloy-based nanocomposites</p> <p>Authors (4): Mardi, K. Bimla; Dixit, Amit Rai ... Reddy, A. Ramana</p> <p>Published: 2018 in International Journal of Surface Science and Engineering</p>	5
<p>Processing of alumina ceramics by abrasive waterjet - an experimental study</p> <p>Authors (8): Saurabh, Saket; Tiwari, Tanmay ... Srivastava, Ashish Kumar</p> <p>Published: 2018 in Materials Today: Proceedings</p> <p>DOI: 10.1016/J.MATPR.2018.06.140</p>	10
<p>Influence of graphene-based nanofluid with minimum quantity lubrication on surface roughness and cutting temperature in turning operation</p> <p>Authors (10): Singh, Rabesh Kumar; Sharma, Anuj Kumar ... Das, Alok Kumar</p> <p>Published: 2018 in Materials Today: Proceedings</p> <p>DOI: 10.1016/J.MATPR.2018.10.255</p>	24
<p>Surface Integrity analysis of Wire-EDM on in-situ hybrid composite A359/Al<sub>2</sub>O<sub>3</sub>/B<sub>4</sub>C</p> <p>Authors (6): Nag, Akash; Srivastava, Ashish Kumar ... Tiwari, Tanmay</p> <p>Published: 2018 in Materials Today: Proceedings</p> <p>DOI: 10.1016/J.MATPR.2018.10.261</p>	14
<p>Enhancing compressive response of Mg-6Al alloy using Al<sub>2</sub>O<sub>3</sub> nanoparticles</p> <p>Authors (4): Mardi, K. Bimla; Mallick, A. ... Gupta, M.</p> <p>Published: 2018 in Kovove Materialy</p> <p>DOI: 10.4149/KM_2018_3_183</p>	4



Investigation of powder mixed EDM process parameters for machining Inconel alloy using response surface methodology Authors (4): Kumar, Amit; Kumar, Saroj ... Dixit, Amit Rai Published: 2018 in Materials Today: Proceedings DOI: 10.1016/J.MATPR.2017.12.225	17
Enhancing compressive response of Mg-6Al alloy using Al <sub>2</sub> O <sub>3</sub> nanoparticles Authors (4): Mardi, K.B.; Mallick, A. ... Gupta, M. Published: 2018 in Kovove Materialy DOI: 10.4149/KM20183183	Not indexed in the Web of Science
Influence of graphene and multi-walled carbon nanotube additives on tribological behaviour of lubricants Authors (6): Singh, Rabesh Kumar; Dixit, Amit Rai ... Pramanik, Alokesh Published: 2018 in International Journal of Surface Science and Engineering DOI: 10.1504/IJSURFSE.2018.094773	22
Experimental analysis of a solar parabolic trough collector Authors (3): Bharti, A.; Dixit, A.; Paul, B. Published: 2018 in International Journal of Mechanical Engineering and Technology	Not indexed in the Web of Science
Performance evaluation of Al <sub>2</sub> O <sub>3</sub> nano powder mixed dielectric for electric discharge machining of Inconel 825 Authors (4): Kumar, Amit; Mandal, Amitava ... Das, Alok Kumar Published: 2018 in Materials and Manufacturing Processes DOI: 10.1080/10426914.2017.1376081	90
Novel uses of alumina-MoS <sub>2</sub> hybrid nanoparticle enriched cutting fluid in hard turning of AISI 304 steel Authors (4): Sharma, Anuj Kumar; Singh, Rabesh Kumar ... Tiwari, Arun Kumar Published: Dec 2017 in Journal of Manufacturing Processes DOI: 10.1016/J.JMAPRO.2017.10.016	110
Surface integrity of Mg-based nanocomposite produced by Abrasive Water Jet Machining (AWJM) Authors (10): Mardi, K. Bimla; Dixit, A. R. ... Zelenak, Michal Published: Nov 2017 in Materials and Manufacturing Processes DOI: 10.1080/10426914.2017.1279306	26
Emerging application of nanoparticle-enriched cutting fluid in metal removal processes: a review Authors (4): Singh, Rabesh Kumar; Dixit, Amit Rai ... Sharma, Anuj Kumar Published: Nov 2017 in Journal of the Brazilian Society of Mechanical Sciences and Engineering DOI: 10.1007/S40430-017-0839-0	44

Improvement of surface integrity of Nimonic C 263 super alloy produced by WEDM through various post-processing techniques Authors (6): Mandal, Amitava; Dixit, Amit Rai ... Krolczyk, Grzegorz Published: Oct 2017 in The International Journal of Advanced Manufacturing Technology DOI: 10.1007/S00170-017-9993-X	50
Joining of carbon fibre reinforced polymer (CFRP) composites and aluminium alloys - A review Authors (8): Pramanik, A.; Basak, A. K. ... Chattopadhyaya, S. Published: Oct 2017 in Composites Part A: Applied Science and Manufacturing DOI: 10.1016/J.COMPOSITESA.2017.06.007	453
Performance evaluation of alumina-graphene hybrid nano-cutting fluid in hard turning Authors (6): Singh, Rabesh Kumar; Sharma, Anuj Kumar ... Mandal, Amitava Published: Sep 2017 in Journal of Cleaner Production DOI: 10.1016/J.JCLEPRO.2017.06.104	165
Contribution of machining to the fatigue behaviour of metal matrix composites (MMCs) of varying reinforcement size Authors (9): Pramanik, A.; Islam, M. N. ... Chattopadhyaya, S. Published: Sep 2017 in International Journal of Fatigue DOI: 10.1016/J.IJFATIGUE.2017.04.018	25
Surface integrity in tangential turning of hybrid MMC A359/B4C/Al2O3 by abrasive waterjet Authors (8): Srivastava, Ashish Kumar; Nag, Akash ... Hlavacek, Peter Published: Aug 2017 in Journal of Manufacturing Processes DOI: 10.1016/J.JMAPRO.2017.05.017	37
Application of Lean Six Sigma for cost-optimised solution of a field quality problem: A case study Authors (3): Mahato, Satyajit; Dixit, Amit Rai; Agrawal, Rajeev Published: Mar 2017 in Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture DOI: 10.1177/0954405417694060	15
Fatigue life of machined components Authors (7): Pramanik, A.; Dixit, A. R. ... Littlefair, G. Published: Mar 2017 in Advances in Manufacturing DOI: 10.1007/S40436-016-0168-Z	36
Surface integrity analysis of abrasive water jet-cut surfaces of friction stir welded joints Authors (12): Kumar, Ratnesh; Chattopadhyaya, Somnath ... Vilaca, Pedro Published: Feb 2017 in The International Journal of Advanced Manufacturing Technology DOI: 10.1007/S00170-016-8776-0	40

<p>Fiber laser cutting of CFRP composites and process optimization through response surface methodology</p> <p>Authors (8): Rao, Shivdayal; Sethi, Abhijeet ... Mandal, A.</p> <p>Published: 2017 in Materials and Manufacturing Processes</p> <p>DOI: 10.1080/10426914.2017.1279296</p>	75
<p>Application of Gold(III) Acetate as a New Precursor for the Synthesis of Gold Nanoparticles in PEG Through Ultrasonic Spray Pyrolysis</p> <p>Authors (7): Shariq, Mohammed; Majeric, Peter ... Rudolf, Rebeka</p> <p>Published: 2017 in Journal of Cluster Science</p> <p>DOI: 10.1007/S10876-017-1178-0</p>	18
<p>Experimental investigation of thermal conductivity and specific heat of nanoparticles mixed cutting fluids</p> <p>Authors (5): Singh, Rabesh Kumar; Sharma, Anuj Kumar ... Tiwari, Arun Kumar</p> <p>Published: 2017 in Materials Today: Proceedings</p> <p>DOI: 10.1016/J.MATPR.2017.07.206</p>	28
<p>Investigation into Performance of SiO<sub>2</sub> Nanoparticle Based Cutting Fluid in Machining Process</p> <p>Authors (4): Anuj Kumar Sharma; Arun Kumar Tiwari ... Rabesh Kumar Singh</p> <p>Published: 2017 in Materials Today: Proceedings</p> <p>DOI: 10.1016/J.MATPR.2017.01.006</p>	<div>Not indexed in the Web of Science</div>
<p>Studies on Non-traditional Machining of Metal Matrix Composites</p> <p>Authors (3): Mardi, Kumari Bimla; Dixit, A. R.; Mallick, Ashis</p> <p>Published: 2017 in Materials Today: Proceedings</p> <p>DOI: 10.1016/J.MATPR.2017.07.165</p>	8
<p>Application of Soft Computing Techniques for Cell Formation Problems: A Review</p> <p>Authors (2): Seema; Dixit, A. R.</p> <p>Published: 2017 in INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL, INDUSTRIAL, AUTOMATION AND MANAGEMENT SYSTEMS (AMIAMS) - PROCEEDINGS</p> <p>DOI: 10.1109/AMIAMS.2017.8069219</p>	0
<p>Investigation into Performance of SiO<sub>2</sub> Nanoparticle Based Cutting Fluid in Machining Process</p> <p>Authors (4): Sharma, Anuj Kumar; Tiwari, Arun Kumar ... Singh, Rabesh Kumar</p> <p>Published: 2017 in Materials Today: Proceedings</p>	31
<p>Pulse current co-deposition of Ni-WS<sub>2</sub> nano-composite film for solid lubrication</p> <p>Authors (8): Roy, D.; Das, A. K. ... Dixit, A. R.</p> <p>Published: 2017 in Materials and Manufacturing Processes</p> <p>DOI: 10.1080/10426914.2016.1198011</p>	20

<p>Empirical assessment of the causal relationships among lean criteria using DEMATEL method</p> <p>Authors (3): Sharma, Vikram; Dixit, Amit Rai; Qadri, Mohammad Asim</p> <p>Published: Oct 2016 in Benchmarking</p> <p>DOI: 10.1108/BIJ-08-2014-0078</p>	34
<p>Effect of Size, Content and Shape of Reinforcements on the Behavior of Metal Matrix Composites (MMCs) Under Tension</p> <p>Authors (4): Paknia, A.; Pramanik, A. ... Chattopadhyaya, S.</p> <p>Published: Oct 2016 in Journal of Materials Engineering and Performance</p> <p>DOI: 10.1007/S11665-016-2307-X</p>	47
<p>Study on thermophysical properties and phase evolution in Nd doped Li<sub>2</sub>O-Al<sub>2</sub>O<sub>3</sub>-SiO<sub>2</sub> glass nucleated by multiple nucleating agents</p> <p>Authors (4): Mishra, Richa; Goswami, M. ... Krishnan, M.</p> <p>Published: Sep 2016 in Journal of Non-Crystalline Solids</p> <p>DOI: 10.1016/J.JNONCRY SOL.2016.05.035</p>	20
<p>Effects of Minimum Quantity Lubrication (MQL) in machining processes using conventional and nanofluid based cutting fluids: A comprehensive review</p> <p>Authors (3): Sharma, Anuj Kumar; Tiwari, Arun Kumar; Dixit, Amit Rai</p> <p>Published: Jul 2016 in Journal of Cleaner Production</p> <p>DOI: 10.1016/J.JCLEPRO.2016.03.146</p>	369
<p>Modeling Lean implementation for manufacturing sector</p> <p>Authors (3): Sharma, Vikram; Dixit, Amit Rai; Qadri, Mohd. Asim</p> <p>Published: May 2016 in Journal of Modelling in Management</p> <p>DOI: 10.1108/JM2-05-2014-0040</p>	38
<p>Process excellence in IT sector in an emerging economic scenario</p> <p>Authors (3): Mahato, Satyajit; Dixit, Amit Rai; Agrawal, Rajeev</p> <p>Published: Mar 2016 in International Conference on Recent Advances in Information Technology (RAIT)</p> <p>DOI: 10.1109/RAIT.2016.7507973</p>	2
<p>Improving Structure, Properties, and Abrasive Wear Resistance of the Thermally Sprayed Co-Based Coating by Means of La<sub>2</sub>O<sub>3</sub> Addition</p> <p>Authors (4): Sharma, S.; Pandey, R. K. ... Dixit, A.</p> <p>Published: Mar 2016 in Soviet Powder Metallurgy and Metal Ceramics</p> <p>DOI: 10.1007/S11106-016-9761-8</p>	3
<p>Rheological behaviour of nanofluids: A review</p> <p>Authors (3): Sharma, Anuj Kumar; Tiwari, Arun Kumar; Dixit, Amit Rai</p> <p>Published: Jan 2016 in Renewable and Sustainable Energy Reviews</p> <p>DOI: 10.1016/J.RSER.2015.09.033</p>	249
<p>Tribological Investigation of TiO<sub>2</sub> Nanoparticle based Cutting Fluid in Machining under Minimum Quantity Lubrication (MQL)</p> <p>Authors (4): Sharma, Anuj Kumar; Tiwari, Arun Kumar ... Dixit, Amit Rai</p> <p>Published: 2016 in Materials Today: Proceedings</p> <p>DOI: 10.1016/J.MATPR.2016.04.121</p>	63

Investigation of micro-structural and mechanical properties of metal matrix composite A359/B4C through electromagnetic stir casting Authors (3): Srivastava, Ashish K.; Dixit, Amit Rai; Tiwari, Sandeep Published: 2016 in Indian Journal of Engineering and Materials Sciences	24	
Potential of using water jet peening as a surface treatment process for welded joints Authors (5): Srivastava, Madhulika; Tripathi, Rupam ... Dixit, Amit Rai Published: 2016 in Procedia Engineering DOI: 10.1016/J.PROENG.2016.06.694	43	
Modeling and Optimization of Machining Nimonic C-263 Superalloy using Multicut Strategy in WEDM Authors (4): Mandal, Amitava; Dixit, Amit Rai ... Mandal, Niladri Published: 2016 in Materials and Manufacturing Processes DOI: 10.1080/10426914.2015.1048462	83	
Characterization of TiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> and SiO <sub>2</sub> Nanoparticle based Cutting Fluids Authors (3): Sharma, Anuj Kumar; Tiwari, Arun Kumar; Dixit, Amit Rai Published: 2016 in Materials Today: Proceedings DOI: 10.1016/J.MATPR.2016.04.089	23	
Feasibility Study of Friction Surfaced Coatings over Non-Ferrous Substrates Authors (5): Shariq, Mohammed; Srivastava, Madhulika ... Dixit, Amit Rai Published: 2016 in Procedia Engineering DOI: 10.1016/J.PROENG.2016.06.693	9	
Characterization and experimental investigation of Al <sub>2</sub> O <sub>3</sub> nanoparticle based cutting fluid in turning of AISI 1040 steel under minimum quantity lubrication (MQL) Authors (4): Sharma, Anuj Kumar; Singh, Rabesh Kumar ... Tiwari, Arun Kumar Published: 2016 in Materials Today: Proceedings DOI: 10.1016/J.MATPR.2016.04.090	84	
Tribological behaviour and characterisation of Ni-WS <sub>2</sub> composite coating Authors (5): Saini, Rahul; Roy, Debanshu ... Nayak, Ganesh Chandra Published: 2016 in International Journal of Surface Science and Engineering DOI: 10.1504/IJSURFSE.2016.076994	9	
Investigation of micro-structural and mechanical properties of metal matrix composite A359/B4C through electromagnetic stir casting Authors (3): Srivastava, A.K.; Dixit, A.R.; Tiwari, S. Published: 2016 in Indian Journal of Engineering and Materials Sciences		Not indexed in the Web of Science
Response prediction in machining of AISI 1040 stainless steel using ANN model Authors (5): Kumar, S.; Singh, R. ... Das, A. Published: 2016 in ARPJ Journal of Engineering and Applied Sciences		Not indexed in the Web of Science

<p><b>Tribo-mechanical characterization of spark plasma sintered chopped carbon fibre reinforced silicon carbide composites</b></p> <p>Authors (4): Agarwal, Shivam; Sarkar, Soumya ... Dixit, Amit Rai</p> <p>Published: 2016 in Ceramics International</p> <p>DOI: 10.1016/J.CERAMINT.2016.08.155</p>	13
<p><b>Impact of lean practices on performance measures in context to Indian machine tool industry</b></p> <p>Authors (3): Sharma, Vikram; Dixit, Amit Rai; Qadri, Mohammad Asim</p> <p>Published: Oct 2015 in Journal of Manufacturing Technology Management</p> <p>DOI: 10.1108/JMTM-11-2014-0118</p>	57
<p><b>Progress of Nanofluid Application in Machining: A Review</b></p> <p>Authors (3): Sharma, Anuj Kumar; Tiwari, Arun Kumar; Dixit, Amit Rai</p> <p>Published: Jul 2015 in Materials and Manufacturing Processes</p> <p>DOI: 10.1080/10426914.2014.973583</p>	166
<p><b>An interpretive hierarchical model for lean implementation in machine tool sector</b></p> <p>Authors (4): Sharma, V.; Dixit, A.R. ... Kumar, S.</p> <p>Published: 2015 in International Journal of Productivity and Quality Management</p> <p>DOI: 10.1504/IJPQM.2015.068475</p>	6
<p><b>Mechanism of Nanoparticles functioning and Effects in Machining Processes: A Review</b></p> <p>Authors (3): Sharma, Anuj Kumar; Tiwari, Arun Kumar; Dixit, Amit Rai</p> <p>Published: 2015 in Materials Today: Proceedings</p> <p>DOI: 10.1016/J.MATPR.2015.07.331</p>	41
<p><b>Improved Machining Performance with Nanoparticle Enriched Cutting Fluids under Minimum Quantity Lubrication (MQL) Technique: A Review</b></p> <p>Authors (3): Sharma, Anuj Kumar; Tiwari, Arun Kumar; Dixit, Amit Rai</p> <p>Published: 2015 in Materials Today: Proceedings</p> <p>DOI: 10.1016/J.MATPR.2015.07.066</p>	37
<p><b>Current trends in electric discharge machining using micro and nano powder materials- A Review</b></p> <p>Authors (3): Bajaj, Rajesh; Tiwari, Arun Kumar; Dixit, Amit Rai</p> <p>Published: 2015 in Materials Today: Proceedings</p> <p>DOI: 10.1016/J.MATPR.2015.07.147</p>	23
<p><b>State of art in wire electrical discharge machining process and performance</b></p> <p>Authors (2): Amitava Mandal; Amit Rai Dixit</p> <p>Published: 2014 in International Journal of Machining and Machinability of Materials</p> <p>DOI: 10.1504/IJMMM.2014.063918</p>	<div>Not indexed in the Web of Science</div>

<p>Current status, enablers &amp; barriers of implementing cellular manufacturing system in Indian industries</p> <p>Authors (2): Dixit, Amit; Gupta, Manish</p> <p>Published: 2013 in Advances in Manufacturing</p> <p>DOI: 10.1007/S40436-013-0048-8</p>	7	
<p>Comparative study of evaporation using DC and AC filament electron guns</p> <p>Authors (19): Lahiri, Sutanwi; Sahu, G. K. ... Gantayet, L. M.</p> <p>Published: Nov 2012 in Journal of Physics: Conference Series</p> <p>DOI: 10.1088/1742-6596/390/1/012016</p>	2	
<p>Effect of V2O5 on SrO-ZnO-B2O3-SiO2 Glass-Ceramics for High Temperature Sealant Application</p> <p>Authors (5): Tiwari, Babita; Bhattacharya, S. ... Kothiyal, G. P.</p> <p>Published: 2012 in AIP Conference Proceedings</p> <p>DOI: 10.1063/1.4710134</p>	3	
<p>Dynamic cellular manufacturing design and its sensitivity analysis</p> <p>Authors (2): Dixit, A.R.; Mishra, P.K.</p> <p>Published: 2012 in International Journal of Applied Management Science</p> <p>DOI: 10.1504/12.47675</p>		Not indexed in the Web of Science
<p>Measurement of Neutral Atom Scattering onto Product Collector during Collimation of Atomic Beam</p> <p>Authors (20): Sahu, G. K.; Baruah, S. ... Gantayet, L. M.</p> <p>Published: 2012 in AIP Conference Proceedings</p> <p>DOI: 10.1063/1.4732436</p>	1	
<p>Some studies on the phase formation and kinetics in TiO(2) containing lithium aluminum silicate glasses nucleated by P(2)O(5)</p> <p>Authors (6): Ananthanarayanan, A.; Dixit, A. ... Kothiyal, G. P.</p> <p>Published: 2011 in Journal of Thermal Analysis and Calorimetry</p> <p>DOI: 10.1007/S10973-010-1279-6</p>	4	
<p>Effect of ZnO on phase emergence, microstructure and surface modifications of calcium phosphosilicate glass/glass-ceramics having iron oxide</p> <p>Authors (6): Sharma, K.; Dixit, A. ... Kothiyal, G. P.</p> <p>Published: Mar 2010 in Applied Surface Science</p> <p>DOI: 10.1016/J.APSUSC.2009.11.082</p>	14	
<p>Cell formation considering real-life production parameters</p> <p>Authors (2): Dixit, A.R.; Mishra, P.K.</p> <p>Published: 2010 in International Journal of Manufacturing Technology and Management</p> <p>DOI: 10.1504/IJMTM.2010.032898</p>		Not indexed in the Web of Science
<p>Ex-CLASS: Extended Cell formation and LAYout Selection considering production parameters with Sequence data</p> <p>Authors (2): A.R. Dixit; P.K. Mishra</p> <p>Published: 2010 in International Journal of Product Development</p> <p>DOI: 10.1504/IJPD.2010.029992</p>		Not indexed in the Web of Science

<p>Structural and Magnetic Studies on Nano-crystalline Biocompatible Glass/ Glass-ceramic</p> <p>Authors (4): Kothiyal, G. P.; Sharma, K. ... Srinivasan, A.</p> <p>Published: 2010 in AIP Conference Proceedings</p>	5
<p>Preparation and studies on surface modifications of calcium-silico-phosphate ferrimagnetic glass-ceramics in simulated body fluid</p> <p>Authors (10): Sharma, K.; Dixit, A. ... Kothiyal, G. P.</p> <p>Published: Aug 2009 in Materials Science and Engineering: C</p> <p>DOI: 10.1016/J.MSEC.2009.05.009</p>	38
<p>Adaptive Observers for Servo Systems with Friction</p> <p>Authors (2): Dixit, Amit; Suryanarayanan, Shashikanth</p> <p>Published: Sep 2008 in IEEE International Conference on Control Applications (CCA)</p> <p>DOI: 10.1109/CCA.2008.4629579</p>	4
<p>Design of flexible manufacturing cell considering uncertain product mix requirement</p> <p>Authors (2): Amit Rai Dixit; P.K. Mishra</p> <p>Published: 2008 in International Journal of Agile Systems and Management</p> <p>DOI: 10.1504/IJASM.2008.019598</p>	<div>Not indexed in the Web of Science</div>
<p>Heuristic based approach of cell formation considering operation sequence</p> <p>Authors (2): Dixit, Amit Rai; Mishra, P. K.</p> <p>Published: 2007 in INTERNATIONAL MULTICONFERENCE OF ENGINEERS AND COMPUTER SCIENTISTS (IMECS), VOLS I-III</p>	1
<p>A procedure for the development of control-oriented linear models for horizontal-axis large wind turbines</p> <p>Authors (2): Suryanarayanan, Shashikanth; Dixit, Amit</p> <p>Published: 2007 in Journal of Dynamic Systems, Measurement, and Control</p> <p>DOI: 10.1115/1.2745852</p>	9

## Verified Reviews

### Review Summary





## Reviewer Summary

For manuscripts reviewed from date range February 2007 - February 2025

(3) Proceedings of the Institution of ...	(3) Virtual and Physical Prototyping
(2) Rapid Prototyping Journal	(1) IEEE Access
(1) Applied Sciences	

### 10 REVIEWS OF 8 MANUSCRIPTS

For manuscripts published from date range February 2007 - February 2025

---

Microwave-assisted 3D printing of epoxy resin ink using rectangular waveguide  
2 rounds from Jan 2024 to Mar 2024 for Virtual and Physical Prototyping

---

Exploring Design Approaches for 3D Printed Antennas  
Reviewed: Dec 2023 for IEEE Access

---

Experimental Study of the Mechanical Behavior of 3D Printed Polymers Under Tensile and Bending Loads  
Reviewed: Sep 2023 for Rapid Prototyping Journal

---

Vat Photopolymerization of Sepiolite Fiber-toughened Alumina: Effects on Microstructures and Physical, Rheological, and Mechanical Properties  
Reviewed: Jul 2023 for Virtual and Physical Prototyping

---

Emissions of Volatile Compounds and Solids during Additive Manufacturing by the FFF Method  
Reviewed: Apr 2023 for Applied Sciences

---

Different Build Strategies and Computer Aided Process Planning for Fabricating a Functional Component through Hybrid-Friction Stir Additive Manufacturing  
Reviewed: Jul 2022 for Rapid Prototyping Journal

---

Influence of h-BN Additives Nanocutting Fluid on Machining of AA6061-T6 Alloy using Minimum Quality Lubrication  
2 rounds from Jan 2022 to May 2022 for Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering

---

Electrical discharge machining of Fe-based shape memory alloy: Parametric evaluation with microstructure analysis  
Reviewed: Apr 2022 for Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering

---