

List of SCI Publications (2020)

SN	Authors	Title	Source Title	Year	Vol	Issue	BPage	EPage	DOI
1	Adeleke, A A and Odusote, J K and Ikubanni, P P and Lasode, O A and Malathi, M and Paswan, Davanand	Essential basics on biomass torrefaction, densification and utilization	INTERNATIONAL JOURNAL OF ENERGY RESEARCH	2020	45	2	1375	1395	https://onlinelibrary.wiley.com/doi/10.1002/er.588...
2	Alex, T. C.; Kailath, A. J.; Kumar, Rakesh	Al-Monohydrate (Boehmite) to Al-Trihydrate (Bayerite/Gibbsite) Transformation During High-Energy Milling	METALLURGICAL AND MATERIALS TRANSACTIONS B	2020	51	2	443	451	10.1007/s11663-020-01771-6
3	Ali, Rashid; Akhtar, Muhammad Umair; Zahoor, Aqib; Ali, Fahad; Scudino, Sergio; Shahid, Rub Nawaz; Tariq, Naeem Ul Haq; Srivastava, Vikas C.; Uhlenwinkel, Volker; Hasan, B. A.; Eckert, Jürgen	Study of thermal and structural characteristics of mechanically milled nanostructured Al-Cu-Fe quasicrystals	MATERIALS CHEMISTRY AND PHYSICS	2020	251		123071		10.1016/j.matchemphys.2020.123071
4	Ammasi, A.	Effect of Heating Rate on Decomposition Temperature of Goethite Ore	TRANSACTIONS OF THE INDIAN INSTITUTE OF METALS	2020	73	1	93	98	10.1007/s12666-019-01806-w
5	Ammasi, A. Pal, Jagannath	Reaction Mechanism of In-situ Carbon in Hematite Ore Pellet during Induration	MINERAL PROCESSING AND EXTRACTIVE METALLURGY REVIEW	2020	Online				10.1080/08827508.2020.1825954
6	Bansal, G. K.; Jena, P. S. M.; Ghosh, Chiradeep; Srivastava, V. C.; Rajinikanth, V.; Dutta, Monojit; Chowdhury, S. Ghosh	Quench Temperature-Dependent Mechanical Properties During Nonisothermal Partitioning	METALLURGICAL AND MATERIALS TRANSACTIONS A	2020	51	10	5088	5100	10.1007/s11661-020-05952-5
7	Bansal, G. K.; Junior, L. P.; Ghosh, Chiradeep; Rajinikanth, V.; Tripathy, S.; Srivastava, V. C.; Bhagat, A. N.; Ghosh Chowdhury, S.	Quench Temperature-Dependent Phase Transformations During Nonisothermal Partitioning	METALLURGICAL AND MATERIALS TRANSACTIONS A	2020	51	7	3410	3424	10.1007/s11661-020-05779-0
8	Bansal, G. K.; Rajinikanth, V.; Ghosh, Chiradeep; Srivastava, V. C.; Dutta, Monojit; Chowdhury, S. Ghosh	Effect of cooling rate on the evolution of microstructure and mechanical properties of nonisothermally partitioned steels	MATERIALS SCIENCE AND ENGINEERING A	2020	788		139614		10.1016/j.msea.2020.139614
9	Barat, Kaustav; Sivaprasad, S.; Kar, Sujoy Kumar; Tarafder, S.	A novel rate based methodology for creep fatigue life estimation of superalloys	INTERNATIONAL JOURNAL OF PRESSURE VESSELS AND PIPING	2020	182		104064		10.1016/j.ijpvp.2020.104064
10	Chakladar, Saswati; Banerjee, Riya; Mohanty, Ashok; Chakravarty, Sanchita; Patar, Prasaniyet Kumar	Turpentine oil: a novel and natural bridging liquid for agglomeration of coal fines of high ash coals	INTERNATIONAL JOURNAL OF COAL PREPARATION AND UTILIZATION	2020			1789976		10.1080/19392699.2020.1789976

List of SCI Publications (2020)

11	Chakladar, Saswati; Chakravarty, Sanchita; Mohanty, Ashok; Alex, T. C.; Kumar, Sanjay	Quality improvement of heat altered coals: A preliminary feasibility study	ENVIRONMENTAL TECHNOLOGY & INNOVATION	2020	18		100764		10.1016/j.eti.2020.100764
12	Chakravarty, K.; Mishra, Vivek; Chakladar, S.; Chakravarty, S.; Saxena, V. K.; Bhattacharya, S.	Mineralogical Study of Beneficiated and Carbonized Indian Coking Coal for Better Utilization: A Case Study	NATURAL RESOURCES RESEARCH	2020	29	4	2431	2450	10.1007/s11053-019-09581-7
13	Chakravarty, Koushik; Kumar, Sunil	Increase in energy efficiency of a steel billet reheating furnace by heat balance study and process improvement	ENERGY REPORTS	2020	6		343	349	10.1016/j.egy.2020.01.014
14	Chakravarty, Sanchita; Chakravarty, K.; Mishra, Vivek; Chakladar, Saswati; Mohanty, Ashok; Sharma, Mamta	Characterization of Chemical Structure with Relative Density of Three Different Ranks of Coal from India	NATURAL RESOURCES RESEARCH	2020	29	5	3121	3136	10.1007/s11053-020-09629-z
15	Chalavadi, Ganesh; Singh, Ranjeet K.	Study of Dry Mineral Separation Behavior in Dry Density Separators	TRANSACTIONS OF THE INDIAN INSTITUTE OF METALS	2020	73	8	2125	2128	10.1007/s12666-020-02018-3
16	Chalavadi, Ganesh; Singh, Ranjeet Kumar	Feasibility study of iron ore fines beneficiation by shallow bed air fluidized separator	PARTICULATE SCIENCE AND TECHNOLOGY	2020			1	10	10.1080/02726351.2020.1741751
17	Chandan, A. K.; Tripathy, S.; Ghosh, M.; Chowdhury, S. G.	Evolution of Substructure of a Non-equiatomic FeMnCrCo High Entropy Alloy Deformed at Ambient Temperature (vol 50, pg 128, 2019)	METALLURGICAL AND MATERIALS TRANSACTIONS A	2020	51	3	1438	1438	10.1007/s11661-020-05624-4
18	Char, Monalisa; Chakraborty, Amit K.; Metya, Avijit Kr.; Kar, Abhijit	Retardation Effect of Tin Multilayer on Sn-3.0Ag-0.5Cu (SAC305)-Based Solder Joint Interface	JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE	2020	29	4	2305	2315	10.1007/s11665-020-04730-z
19	Chennakesavulu, K.; Sreedevi, P.; Bhaskar Raju, G.; Ramanjaneya Reddy, G.	Study on interaction of p-sulfonato calix[6]arene with arsanilic acid	JOURNAL OF DISPERSION SCIENCE AND TECHNOLOGY	2020	Online		1845960		10.1080/01932691.2020.1845960
20	Choudhary, Chandan; Sahoo, Kanai Lal; Mandal, Durbadal	Processing and characterisation of modified strain-induced melt activation processed Al-Si alloys	MATERIALS SCIENCE AND TECHNOLOGY	2020	36	2	181	193	10.1080/02670836.2019.1686564
21	Das, Bhaskar; Hossain, Syed Minhaz; Pakhira, Bholanath; Pramanick, Ashit Kumar; Das, Rahul; Ray, Mallar	Fluorescence quenching based detection of p-nitrophenol using luminescent silicon nanocrystals and insights into the quenching mechanism	SEMICONDUCTOR SCIENCE AND TECHNOLOGY	2020	35	3	35003		10.1088/1361-6641/ab63f0

List of SCI Publications (2020)

22	Das, Tarun K.; Dutta, Chandan; Kumar, Alok; Kadu, Satish; Sagar, Sarmishtha Palit	Real-Time Parametric Evaluation of Weld in Metallic Wires: A 3-D Simulation and Experimental Validation	JOURNAL OF NONDESTRUCTIVE EVALUATION	2020	39	2	35		10.1007/s10921-020-00681-6
23	Dey, Rima; Tarafder, Soumitra; Bar, Himadri; Sivaprasad, S.	Correlating Effect of Temperature on Cyclic Plastic Deformation Behavior with Substructural Developments for Austenitic Stainless Steel	JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE	2020	29	1	480	496	10.1007/s11665-020-04569-4
24	Dey, Shobhana; Chaurasia, Binish; Sahu, Laxmikanta	Dry processing of high ash Indian coal by air fluidized vibrating deck	INTERNATIONAL JOURNAL OF COAL PREPARATION AND UTILIZATION	2020	Online		1	21	10.1080/19392699.2020.1755660
25	Dey, Shobhana; Sahu, Laxmikanta; Chaurasia, Binish; Nayak, Bibhuranjan	Prospects of utilization of waste dumped low-grade limestone for iron making: A case study	INTERNATIONAL JOURNAL OF MINING SCIENCE AND TECHNOLOGY	2020	30	3	367	372	10.1016/j.ijmst.2020.03.011
26	Dutta, Siuli; Panda, Ashis K.; Chatterjee, Subrata; Roy, Rajat K.	Effect of annealing treatment on magnetic texture of cold rolled ULC steel	MATERIALS LETTERS	2020	276		128211		10.1016/j.matlet.2020.128211
27	Dutta, Siuli; Panda, Ashis K.; Mitra, Amitava; Chatterjee, Subrata; Roy, Rajat K.	Microstructural evolution, recovery and recrystallization kinetics of isothermally annealed ultra low carbon steel	MATERIALS RESEARCH EXPRESS	2020	7	1	16554		10.1088/2053-1591/ab657c
28	Firoz, R.; Basantia, S. K.; Khutia, N.; Bar, H. N.; Sivaprasad, S.; Murthy, G. V. S.	Effect of microstructural constituents on mechanical properties and fracture toughness of Inconel 718 with anomalous deformation behavior at 650 degrees C	JOURNAL OF ALLOYS AND COMPOUNDS	2020	845		156276		10.1016/j.jallcom.2020.156276
29	Gorain, Nema; Walunj, Mahesh Gulab; Soni, Manish Kumar; Kumar, B. Ravi	Effect of continuous annealing process on various structure parameters of martensite of dual-phase steels	ARCHIVES OF CIVIL AND MECHANICAL ENGINEERING	2020	29	4	2305	2015	10.1007/s43452-020-00022-4
30	Guguloth, Krishna; Ghosh, M.; Swaminathan, J.; Mitra, Rahul	Tensile creep and rupture behavior along with evolution of microstructure in a Zr-2.5Nb alloy	MATERIALS SCIENCE AND ENGINEERING A	2020	791		139681		10.1016/j.msea.2020.139681
31	Gupta, Siddhi; Webster, Thomas J.; Sinha, Arvind	Evolution of PVA gels prepared without crosslinking agents as a cell adhesive surface (vol 22, 1763, 2011)	JOURNAL OF MATERIALS SCIENCE-MATERIALS IN MEDICINE	2020	31	8	63		10.1007/s10856-020-06399-1
32	Hasan, Sk Md; Ghosh, Mainak; Chakrabarti, Debalay; Singh, Shiv Brat	Development of continuously cooled low-carbon, low-alloy, high strength carbide-free bainitic rail steels	MATERIALS SCIENCE AND ENGINEERING A	2020	771		138590		10.1016/j.msea.2019.138590

List of SCI Publications (2020)

33	Hung, Nguyen Trong; Le Ba Thuan; Tran Chi Thanh; Watanabe, Masayuki; Hoang Nhuan; Do Van Khoai; Nguyen Thanh Thuy; Nguyen Van Tung; Aoyagi, Noboru; Doan Thi Thu Tra; Nguyen Trung Minh; Jha, Manish Kumar; Lee, Jin-Young; Jyothi, Raiesh Kumar	Optimization of sulfuric acid leaching of a Vietnamese rare earth concentrate	HYDROMETALLURGY	2020	191		105195		10.1016/j.hydro met.2019.105195
34	Hung, Nguyen Trong; Le Thuan Thuan; Tran Chi Thanh; Watanabe, Masayuki; Van Khoai, Do; Nguyen Thanh Thuy; Hoang Nhuan; Pham Quang Minh; Tran Hoang Mai; Nguyen Van Tung; Doan Thi Thu Tra; Jha, Manis Kumar; Lee, Jin-Young; Jyothi, Raiesh Kumar	Separation of thorium and uranium from xenotime leach solutions by solvent extraction using primary and tertiary amines	HYDROMETALLURGY	2020	198		105506		10.1016/j.hydro met.2020.105506
35	Hussain, Raja Rizwan; Al-Negheimish, Abdulaziz; Alhozaimy, Abdulrahman; Singh, D. D. N.	Corrosion characteristics of vanadium micro-alloyed steel reinforcement bars exposed in concrete environments and industrially polluted atmosphere	CEMENT & CONCRETE COMPOSITES	2020	113				10.1016/j.cemconcomp.2020.103728
36	Jha, Gaurav; Soren, S.; Mehta, Kapil Deo	Life cycle assessment of sintering process for carbon footprint and cost reduction: A comparative study for coke and biomass-derived sintering process	JOURNAL OF CLEANER PRODUCTION	2020	259		120899		10.1016/j.jclepro.2020.120889
37	Jha, Gaurav; Soren, Shatrughan; Mehta, Kapil Deo	Partial substitution of coke breeze with biomass and charcoal in metallurgical sintering	FUEL	2020	278		118350		10.1016/j.fuel.2020.118350
38	Kaithwas, C. K.; Bhuyan, P.; Pradhan, S. K.; Mandal, Sumantra	'Hall-Petch' type of relationship between the extent of intergranular corrosion and grain size in a Ni-based superalloy	CORROSION SCIENCE	2020	175				10.1016/j.corsci.2020.108868
39	Kamaraj, Ashok; Dash, Ansuman; Murugaiyan, Premkumar; Misra, Siddhartha	Investigation on Mold Flux Melting and Consumption During Continuous Casting of Liquid Steel	METALLURGICAL AND MATERIALS TRANSACTIONS B	2020	51	5	2159	2170	10.1007/s11663-020-01906-9
40	Kamaraj, Ashok; Haldar, Nimai; Murugaiyan, Premkumar; Misra, Siddhartha	High-Temperature Simulation of Continuous Casting Mould Phenomena	TRANSACTIONS OF THE INDIAN INSTITUTE OF METALS	2020	73	8	2025	2031	10.1007/s12666-020-01919-7

List of SCI Publications (2020)

41	Katiyar, Prvan Kumar; Randhawa, Navneet Singh	A comprehensive review on recycling methods for cemented tungsten carbide scraps highlighting the electrochemical techniques	INTERNATIONAL JOURNAL OF REFRACTORY METALS & HARD MATERIALS	2020	90				10.1016/j.ijrmhm.2020.105251
42	Khadeer, Sk Abdul; Babu, P. Ramesh; Kumar, B. Ravi; Kumar, A. Seshu	Influence of Upset Pressure on Microstructure and Mechanical Properties of Friction-Welded AISI 4140 Low Alloy Steel Pipes	TRANSACTIONS OF THE INDIAN INSTITUTE OF METALS	2020	73	2	465	478	10.1007/s12666-019-01858-y
43	Khadeer, Sk. Abdul; Babu, P. Ramesh; Kumar, B. Ravi; Kumar, A. Seshu	Evaluation of friction welded dissimilar pipe joints between AISI 4140 and ASTM A 106 Grade B steels used in deep exploration drilling	JOURNAL OF MANUFACTURING PROCESSES	2020	56		197	205	10.1016/j.jmapro.2020.04.078
44	Khajuria, Akhil; Akhtar, Modassir; Bedi, Raman; Kumar, Rajneesh; Ghosh, Mainak; Das, C. R.; Albert, Shaju K.	Microstructural investigations on simulated intercritical heat-affected zone of boron modified P91-steel	MATERIALS SCIENCE AND TECHNOLOGY	2020	36	13	1407	1418	10.1080/02670836.2020.1784543
45	Khajuria, Akhil; Akhtar, Modassir; Bedi, Raman; Kumar, Rajneesh; Ghosh, Mainak; Das, C. R.; Albert, Shaju K.	Influence of boron on microstructure and mechanical properties of Gleeble simulated heat-affected zone in P91 steel	INTERNATIONAL JOURNAL OF PRESSURE VESSELS AND PIPING	2020	188				10.1016/j.ijpvp.2020.104246
46	Kumar D Sameer, K N S Suman, Palash Poddar, and Sasanka C Tara	Performance evaluation of surface modified nano Al ₂ O ₃ (p) reinforced AZ91E composites under impact and fatigue loading conditions	STROJNÍCKÝ ČASOPIS - JOURNAL OF MECHANICAL ENGINEERING	2020	70	1			https://content.sciendo.com/view/journals/scjme/70/1/article-p29.xml?rskey=eHjZT0&result=1
47	Kumar, Amarjeet; Murugaiyan, Premkumar; Panda, Ashis K.; Roy, Rajat K.	Effect of compositional elements and processing routes on structural and thermal response in Fe-based metallic glasses	JOURNAL OF ALLOYS AND COMPOUNDS	2020	821		153279		10.1016/j.jallcom.2019.153279
48	Kumar, D. Sameer; Suman, K. N. S.; Poddar, Palash	A study on the impact and fatigue failure of AZ91E-Ni coated alumina composites	CANADIAN METALLURGICAL QUARTERLY	2020	59	3	316	323	10.1080/00084433.2020.1741913
49	Kumar, Dhanranjan; Kumari, Munchun; Murugaiyan, Premkumar; Das, T. K.; Roy, R. K.; Mitra, A.; Shuvaeva, E.; Churyukanova, M.; Kaloshkin, S.; Panda, A. K.	Impact of uniaxial stress on soft-magnetic and magneto-impedance properties of vitrified magnetostrictive microwires	JOURNAL OF ALLOYS AND COMPOUNDS	2020	831		154861		10.1016/j.jallcom.2020.154861

List of SCI Publications (2020)

50	Kumar, Krishna; Das, Suchandan K.; Kumar, Manoj	Heat transfer modelling of dropwise condensation behaviour of magnesium vapours in the electrothermal production of <u>magnesium</u>	CANADIAN METALLURGICAL QUARTERLY	2020	59	2	134	150	10.1080/00084433.2020.1715695
51	Kumar, Naresh; Venugopal, R.; Soren, S.; Chakravarty, S.	Thermodynamic Modelling of Effect of Flux on the Liquidus Temperatures and Phase transitions in Coal Ash	JOURNAL OF THE GEOLOGICAL SOCIETY OF INDIA	2020	96	1	87	90	10.1007/s12594-020-1508-y
52	Kumar, Sujeet; Djobo, Jean Noel Yankwa; Kumar, Anil; Kumar, Sanjay	Size fractionation of brown fly ash: utilisation of grey fraction as a pozzolanic material in blended cement	EUROPEAN JOURNAL OF ENVIRONMENTAL AND CIVIL ENGINEERING	2020	24	6	833	848	10.1080/19648189.2018.1427635
53	Kumar, Sunil	Structural Evolution of Iron-Copper (Fe-Cu) Bimetallic Janus Nanoparticles during Solidification: An Atomistic Investigation	JOURNAL OF PHYSICAL CHEMISTRY C	2020	124	1	1053	1063	10.1021/acs.jpcc.9b08411
54	Kumar, Sunil; Mishra, Trilochan	Shock wave induced exfoliation of molybdenum disulfide (MOS ₂) various solvents: All-atom <u>molecular dynamics simulation</u>	JOURNAL OF MOLECULAR LIQUIDS	2020	314				10.1016/j.molliq.2020.113671
55	Kumar, Sunil; Mishra, Trilochan; Mahata, Avik	Manipulation of mechanical properties of monolayer molybdenum disulfide: Kirigami and hetero-structure based <u>approach</u>	MATERIALS CHEMISTRY AND PHYSICS	2020	252				10.1016/j.matchemphys.2020.123280
56	Kumari, Ajita; Tripathy, Alok; Rayasam, Venugopal	Performance characterization and misplacement studies of liquid-solid fluidized bed density separator for coal beneficiation using Taguchi-ANOVA method	PARTICULATE SCIENCE AND TECHNOLOGY	2020	Online		1751357		10.1080/02726351.2020.1751357
57	Kumari, Archana; Jha, Manis Kumar; Pathak, Devendra Deo	An innovative environmental process for the treatment of scrap Nd-Fe-B magnets	JOURNAL OF ENVIRONMENTAL MANAGEMENT	2020	273		111063		10.1016/j.jenvman.2020.111063
58	Kumari, Archana; Singh, Sunidhi; Parmar, Kavita; Pathak, Devendra Deo; Jha, Manis Kumar	Treatment of monazite processed effluent to recover rare earth metals (REMs)	JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY	2020	83		421	429	10.1016/j.jiec.2019.12.015
59	Malathi, M and Adekunle, Adeleke and Odusote, J K and Ikubannia, P P and Lasode, O A and Paswan, Dayanand	The Ignitability, Fuel ratio and Ash Fusion Temperatures of Torrefied Woody Biomass	HELIYON	2020	6(3)		e03582		https://doi.org/10.1016/j.heliyon.2020.e03582
60	Manoj, A.; Rao, M. A.; Basha, M. M.; Basha, S. M.; Sankar, M. R.	State of art on wire feed additive manufacturing of Ti-6Al-4V alloy	MATERIALS TODAY-PROCEEDINGS	2020	26	Pt. 2	2608	2615	10.1016/j.matpr.2020.02.551

List of SCI Publications (2020)

61	Meshram, Pratima; Abhilash	Recovery and Recycling of Cerium from Primary and Secondary Resources- a Critical Review	MINERAL PROCESSING AND EXTRACTIVE METALLURGY REVIEW	2020	41	4	279	310	10.1080/08827508.2019.1677647
62	Meshram, Pratima; Mishra, Abhilash; Abhilash; Sahu, Rina	Environmental impact of spent lithium ion batteries and green recycling perspectives by organic acids - A review	CHEMOSPHERE	2020	242		125291		10.1016/j.chemosphere.2019.125291
63	Meshram, Pratima; Prakash, Uday; Bhagat, Lalit; Abhilash; Zhao, Hongbo; van Hullebusch, Eric D.	Processing of Waste Copper Converter Slag Using Organic Acids for Extraction of Copper, Nickel, and Cobalt	MINERALS	2020	10	3	290		10.3390/min10030290
64	Miadad, Sk Javed; Venugopalan, T.; Halder, Nimai; Kumar, B. Ravi	On the Study of Batch Annealing Parameter Optimization for Higher Lankford Value in High Phosphorus Interstitial Free High Strength Steel	JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE	2020	29	11	7598	7606	10.1007/s11665-020-05199-6
65	Mishra, Prerna; Rajpurohit, R. S.; Srinivas, N. C. Santhi; Sastry, G. V. S.; Singh, Vakil	Ratcheting Fatigue Behavior of Modified 9Cr-1Mo Steel at Room Temperature	METALS AND MATERIALS INTERNATIONAL	2020	Online				10.1007/s12540-020-00811-9
66	Mishra, Suman Kumari	Toughening of nanocomposite hard coatings	REVIEWS ON ADVANCED MATERIALS SCIENCE	2020	59	1	553	585	10.1515/rams-2020-0049
67	Modassir, Akhtar and Khajuria, A and Bedi, R	Effect of Re-normalizing and Re-tempering on Inter-critical Heat Affected Zone(S) of P91B Steel	MANUFACTURING ENGINEERING	2020			255	270	https://link.springer.com/chapter/10.1007/978-981-15-4619-8_20
68	Modassir, Akhtar and Khajuria, A and Pandey, M K and Ahmed, I	Effects of boron modifications on phase nucleation and dissolution temperatures and mechanical properties in 9%Cr steels: sensitivity and stability	MATERIALS RESEARCH EXPRESS	2020	6	12			https://iopscience.iop.org/article/10.1088/2053-1591/ab71cd/meta
69	Modassir, Akhtar; Khajuria, Akhil	Effects of prior austenite grain size on impression creep and microstructure in simulated heat affected zones of boron modified P91 steels	MATERIALS CHEMISTRY AND PHYSICS	2020	249		122847		10.1016/j.matchemphys.2020.122847
70	Mohanty, Bishnupad; Jena, Bikash Kumar; Kandasamy, Manikandan; Dalai, Namita; Sahu, Ranjan Kumar; Kadam, Ramakant M.; Chakraborty, Brahmananda; Jena, Bijavalaxmi	The role of Se vacancies and Fe doping of nickel selenide in the water oxidation reaction	SUSTAINABLE ENERGY & FUELS	2020	4	6	3058	3065	10.1039/c9se01208g

List of SCI Publications (2020)

71	Mohta, Keshav; Gupta, Suneel K.; Cathirvolu, Soupramanien; Jaganathan, Swaminathan; Chattopadhyay, J.	High temperature deformation behavior of Indian PHWR Calandria material SS 304L	NUCLEAR ENGINEERING AND DESIGN	2020	368		110801		10.1016/j.nucengdes.2020.110801
72	Munda, Parikshit and Hussain, M M and Singh, C V and Bagui, S	Failure Analysis of a Steam Superheater Tube of a Vacuum Distillation Unit (VDU) in a Petrochemical Industry	JOURNAL OF FAILURE ANALYSIS AND PREVENTION	2020	20		1896	1906	https://doi.org/10.1007/s11668-020-01000-x
73	Murugaiyan, Premkumar; Bedanta, Subhankar; Jena, Sukanta Kumar; Panda, Ashis K.; Mitra, Amitava; Bysakh, Sandip; Roy, Rajat K.	Crystallization and magnetic hardening behaviour of Fe-rich FeSiBNb(Cu) melt-spun alloys	JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS	2020	502		166528		10.1016/j.jmmm.2020.166528
74	Murugaiyan, Premkumar; Mitra, Amitava; Roy, Rajat K.; Bijalwan, Pavan; Dutta, Monojit; Banerjee, Atanu; Panda, Ashis K.	Glass forming ability and soft-magnetic properties of Fe-based glassy alloys developed using high phosphorous pig Iron	JOURNAL OF ALLOYS AND COMPOUNDS	2020	821		153255		10.1016/j.jallcom.2019.153255
75	Na, Hyunjin; Yoo, Kyoungkeun; Jha, Manis Kumar; Tabelin, Carlito Baltazar	The Separation of Aluminum and Stainless-Steel Scraps Using Vibrating Mixed-Size Ball Bed	METALS	2020	10	7	868-1	868-10	10.3390/met10070868
76	Nath, S. K.	Fly ash and zinc slag blended geopolymer: Immobilization of hazardous materials and development of paving blocks	JOURNAL OF HAZARDOUS MATERIALS	2020	387		121673		10.1016/j.jhazmat.2019.121673
77	Nath, S. K.; Kumar, Sanjay	Role of particle fineness on engineering properties and microstructure of fly ash derived geopolymer	CONSTRUCTION AND BUILDING MATERIALS	2020	233		117294		10.1016/j.conbuildmat.2019.117294
78	Ogundele, Damilola and Ogundiran, Mary B and Babayemi, Joshua O and Jha, Manis K	Material and Substance Flow Analysis of Used Lead Acid Batteries in Nigeria: Implications for Recovery and Environmental Quality	JOURNAL OF HEALTH AND POLLUTION	2020	10	27	1	12	https://meridian.allenpress.com/jhp/article/10/27/200913/445452/Material-and-Substance-Flow-Analysis-of-Used-Lead
79	Pal, Anindya; Metya, Avijit Kumar; Roy Chowdhury, Amit; Sinha, Arijit	Structural and Mechanical Behavior of Mechanochemically Synthesized Nanocrystalline Hydroxyapatite from Mercenaria Clam Shells	TRANSACTIONS OF THE INDIAN CERAMIC SOCIETY	2020	79	4	175	181	10.1080/0371750X.2020.1792806
80	Pal, J and Ghorai, S and Venugopalan, T	Effect of high Blaine iron ore fines in hematite ore pelletization for blast furnace	MINERAL PROCESSING AND EXTRACTIVE METALLURGY (TRANS. IMM C)	2020	129	3	299	307	https://doi.org/10.1080/25726641.2018.1505208

List of SCI Publications (2020)

81	Panda, Ashis K.; Mohapatra, J. N.; Murugaiyan, Premkumar; Roy, Rajat K.; Mitra, Amitava	Impact of Pre-formed Martensite on the Electromagnetic Properties and Martensitic Transformation Kinetics of Uniaxially Tensile Loaded 304 Stainless Steel	JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE	2020	29	11	7141	7152	10.1007/s11665-020-05201-1
82	Panda, Rekha; Dinkar, Om Shankar; Jha, Manis Kumar; Pathak, Devendra Deo	Novel approach for selective recovery of gold, copper, and iron as marketable product from industrial effluent	GOLD BULLETIN	2020	53	1	11	18	10.1007/s13404-020-00269-y
83	Panda, Rekha; Dinkar, Om Shankar; Jha, Manis Kumar; Pathak, Devendra Deo	Recycling of gold from waste electronic components of devices	KOREAN JOURNAL OF CHEMICAL ENGINEERING	2020	37	1	111	119	10.1007/s11814-019-0412-x
84	Panda, Rekha; Dinkar, Om Shankar; Jha, Manis Kumar; Pathak, Devendra Deo	Hydrometallurgical processing of waste multilayer ceramic capacitors (MLCCs) to recover silver and palladium	HYDROMETALLURGY	2020	197		105476		10.1016/j.hydro met.2020.105476
85	Panda, Rekha; Jha, Manis Kumar; Pathak, Devendra Deo; Gupta, Rajesh	Recovery of Ag, Cu, Ni and Fe from the nitrate leach liquor of waste ICs	MINERALS ENGINEERING	2020	158		106584		10.1016/j.mineng.2020.106584
86	Pari, Sriram; Jha, Niki S.; Ganesan, Thamarai Selvi; Jha, Shailendra K.	Pulse Electrodeposited Au-WO ₃ Catalyst from a Water-Ionic Liquid Microemulsion for Photoaccelerated Methanol Electrooxidation	JOURNAL OF PHYSICAL CHEMISTRY C	2020	124	40	21957	21967	10.1021/acs.jpcc.0c05656
87	Paswan, Sharma; Singh, Jitendra Kumar; Singh, D. D. N.	Effect of lead alloying on corrosion characteristics of galvanized coatings exposed in atmosphere, simulated laboratory and a service environment	SURFACES AND INTERFACES	2020	21		100752		10.1016/j.surfin.2020.100752
88	Peter, Nicolas J.; Duarte, Maria J.; Liebscher, Christian H.; Srivastava, Vikas C.; Uhlenwinkel, Volker; Jaegle, Eric A.; Dehm, Gerhard	Early stage phase separation of AlCoCr _{0.75} Cu _{0.5} FeNi high-entropy powder at the nanoscale	JOURNAL OF ALLOYS AND COMPOUNDS	2020	820		153149		10.1016/j.jallcom.2019.153149
89	Prasad, Sanjay; Kumar, Manoj	Utilization of Roast-Reduced Ilmenite Leach Liquor for Ferrous Chloride Production by Hydrothermal Process	TRANSACTIONS OF THE INDIAN INSTITUTE OF METALS	2020	73	8	2121	2124	10.1007/s12666-020-02017-4
90	Prithiv, T. S.; Thirumurugan, G.; Madan, M.; Kamaraj, Ashok	Thermodynamic Assessment of Steelmaking Practices for the Production of Re-sulfur Steels	TRANSACTIONS OF THE INDIAN INSTITUTE OF METALS	2020	73	6	1595	1603	10.1007/s12666-020-01941-9

List of SCI Publications (2020)

91	Priya, Jayati; Randhawa, N. S.; Hait, J.; Bordoloi, N.; Patel, J. N.	High-purity copper recycled from smelter dust by sulfation roasting, water leaching and electrorefining	ENVIRONMENTAL CHEMISTRY LETTERS	2020	18	6	2133	2139	10.1007/s10311-020-01047-0
92	Rai, R. K.; Sahu, J. K.; Das, S. K.; Paulose, N.; Fernando, C.	Creep-fatigue deformation micromechanisms of a directionally solidified nickel-base superalloy at 850 degrees C	FATIGUE & FRACTURE OF ENGINEERING MATERIALS & STRUCTURES	2020	43	1	51	62	10.1111/ffe.13028
93	Rai, R. K.; Sahu, J. K.; Paulose, N.; Fernando, C.	Low Cycle Fatigue Behavior of a Directionally Solidified Nickel-Based Superalloy: Mechanistic and Microstructural Aspect	METALLURGICAL AND MATERIALS TRANSACTIONS A	2020	51	6	2752	2765	10.1007/s11661-020-05720-5
94	Rajpurohit, R. S.; Jena, P. S. M.; Mahato, B.; Sahu, J. K.	Strain partitioning between matrix and precipitates during fatigue deformation of 2.25Cr-Mo steel	MATERIALS SCIENCE AND TECHNOLOGY	2020	36	11	1200	1204	10.1080/02670836.2020.1762981
95	Rajpurohit, R. S.; Mishra, Prerna; Srinivas, N. C. Santhi; Singh, S. R.; Singh, V	Ratcheting Fatigue Behaviour of Zircaloy-2 at 300 degrees C	METALS AND MATERIALS INTERNATIONAL	2020	Online				10.1007/s12540-020-00686-w
96	Randhawa, N S and Katiyar, P K	Potentiodynamic Polarization Behavior and Microscopic Examination of Tungsten Carbide Hard Metal Materials in Supported Ammoniacal Medium	PORTUGALIAE ELECTROCHIMICA ACTA	2020	38	3	185	200	http://10.4152/pea.202003185
97	Randhawa, Navneet Singh; Minj, Rajesh Kanyut	An Improved Process for the Production of Low-Carbon Ferromanganese in the Electric Arc Furnace	TRANSACTIONS OF THE INDIAN INSTITUTE OF METALS	2020	73	8	2105	2111	10.1007/s12666-020-02010-x
98	Rao, R. Govinda; Ghosh, M.; Ganguly, R. I.; Bose, S. C.; Sahoo, K. L.	Mechanical properties and age hardening response of Al6061 alloy based composites reinforced with fly ash	MATERIALS SCIENCE AND ENGINEERING A	2020	772		138823		10.1016/j.msea.2019.138823
99	Sahu, Laxmikanta; Bhattacharya, Sumantra; Dey, Shobhana	The use of release analysis to show the selectivity of reagents towards differently sized feeds of the same coal	INTERNATIONAL JOURNAL OF COAL PREPARATION AND UTILIZATION	2020			1789975		10.1080/19392699.2020.1789975
100	Sahu, Nilamadhaba; Biswas, Arijit; Kapure, Gajanan U.; Randhawa, Navneet Singh	Thermochemical analysis of smelting of ferruginous manganese ore for silicomanganese production (vol 66, 101637, 2019)	CALPHAD-COMPUTER COUPLING OF PHASE DIAGRAMS AND THERMOCHEMISTRY	2020	69				10.1016/j.calphad.2020.101772
101	Sahu, Sushanta Kumar; Razi, Maryam Kargar; Beuscher, Mathieu; Chagnes, Alexandre	Recovery of Metal Values from Ni-Cd Cake Waste Residue of an Iranian Zinc Plant by Hydrometallurgical Route	METALS	2020	10	5	655		10.3390/met10050655

List of SCI Publications (2020)

102	Saida, Shaik; Chakravaty, Sanchita; Sahu, Rina; Das Biswas, Rupa; Chakravarty, Koushik	Laboratory-Scale Tests for the Utilization of High Ash Non-Coking coal in Coke-Making Process	TRANSACTIONS OF THE INDIAN INSTITUTE OF METALS	2020	73	5	1257	1263	10.1007/s12666-020-01974-0
103	Sarkar, Chandrani; Anuvrat, Kumar; Garai, Subhadra; Sahu, Sumanta Kumar; Chakraborty, Jui	One pot method to synthesize three-dimensional porous hydroxyapatite nanocomposite for bone tissue engineering	JOURNAL OF POROUS MATERIALS	2020	27	1	225	235	10.1007/s10934-019-00805-y
104	Shah, Minal; Sahoo, Kanai Lal; Das, Swapan Kumar; Das, Goutam	Wear Mechanism of High Chromium White Cast Iron and Its Microstructural Evolutions During the Comminution Process	TRIBOLOGY LETTERS	2020	68	3	77		10.1007/s11249-020-01317-6
105	Shekhar, Saurabh; Sinha, S.; Mishra, D.; Agrawal, A.; Sahu, K. K.	A sustainable process for recovery of potash fertilizer from glauconite through simultaneous production of pigment grade red oxide	SUSTAINABLE MATERIALS AND TECHNOLOGIES	2020	23		e00129		10.1016/j.susmat.2019.e00129
106	Shukla, Aparna; Sivakumar, B.; Mishra, S. K.	Corrosion Behavior of Ti-Si-B-C Nanocomposite Hard Coating with Different Si Contents on 4130 Steel	METALLURGICAL AND MATERIALS TRANSACTIONS A	2020	51	7	3576	3586	10.1007/s11661-020-05778-1
107	Siddique, Abu Bakar; Singh, Vishwa Pratap; Pramanick, Ashit Kumar; Ray, Mallar	Amorphous carbon dot and chitosan based composites as fluorescent inks and luminescent films	MATERIALS CHEMISTRY AND PHYSICS	2020	249	Jul	122984		10.1016/j.matchemphys.2020.12.2984
108	Singh, Mayur Pratap; Arora, Kanwer Singh; Kumar, Rajneesh; Shukla, Dinesh Kumar; Prasad, S. Siva	Influence of heat input on microstructure and fracture toughness property in different zones of X80 pipeline steel weldments	FATIGUE & FRACTURE OF ENGINEERING MATERIALS & STRUCTURES	2020	44	1	85	100	10.1111/ffe.13333
109	Singh, Ranjeet Kumar; Sahu, Kisor Kumar; Chalavadi, Ganesh; Swain, Ajit Kumar; Singh, Ratnakar	Experimental investigation on the separation capabilities and limitation of Falcon semi-batch concentrator	SEPARATION SCIENCE AND TECHNOLOGY	2020	Online		1797799		10.1080/01496395.2020.1797799
110	Singh, Ranjeet; Kishore, Raj; Sahu, Kisor; Chalavadi, Ganesh; Singh, Ratnakar	Estimation of the Fluid Velocity Profile in the Stratification Zone of a Falcon Concentrator	MINING METALLURGY & EXPLORATION	2020	37	1	321	331	10.1007/s42461-019-00133-4
111	Singh, Swarnima; Pandey, Krishna Kant; Bose, Siva Kumar; Keshri, Anup Kumar	Role of surface nanocrystallization on corrosion properties of low carbon steel during surface mechanical attrition treatment	SURFACE & COATINGS TECHNOLOGY	2020	396				10.1016/j.surfcoat.2020.125964
112	Singh, Swarnima; Tiwari, S. K.; Singh, Raghuvir	Influence of laser scanning speed on nitrided Ti6Al4V surface	SURFACE ENGINEERING	2020	36	12	1285	1293	10.1080/02670844.2017.1408947

List of SCI Publications (2020)

113	Singh, Yogendra Pratap; Dasgupta, Sudip; Nayar, Suprabha; Bhaskar, Rakesh	Optimization of electrospinning process & parameters for producing defect-free chitosan/polyethylene oxide nanofibers for bone tissue engineering	JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION	2020	31	6	781	803	10.1080/09205063.2020.1718824
114	Singla, Rashmi; Alex, Thomas C.; Kumar, Rakesh	On mechanical activation of glauconite: Physicochemical changes, alterations in cation exchange capacity and mechanisms	POWDER TECHNOLOGY	2020	360		337	351	10.1016/j.powtec.2019.10.035
115	Singla, Rashmi; Kumar, Sanjay; Alex, Thomas C.	Reactivity Alteration of Granulated Blast Furnace Slag by Mechanical Activation for High Volume Usage in Portland Slag Cement	WASTE AND BIOMASS VALORIZATION	2020	11	6	2983	2993	10.1007/s12649-019-00580-6
116	Sinha, Shivendra; Choudhari, R.; Mishra, D.; Shekhar, S.; Agrawal, A.; Sahu, K. K.	Valorisation of waste galvanizing dross: Emphasis on recovery of zinc with zero effluent strategy	JOURNAL OF ENVIRONMENTAL MANAGEMENT	2020	256				10.1016/j.jenvman.2019.109985
117	Soni; Sharma, S. K.; Mishra, S. K.	The effect of Si content on structural, mechanical and optical behaviour of magnetron sputtered Al-Si-N nanocomposite thin films	JOURNAL OF ALLOYS AND COMPOUNDS	2020	831				
118	Soni; Shekh, Mohammed Junaid; Sharma, S. K.; Mishra, S. K.	Strain rate sensitivity behaviour of the thin films of Al, Al-Si and nanocomposite Al-Si-N: A comparative study	MATERIALS CHARACTERIZATION	2020	169				10.1016/j.matchar.2020.110589
119	Srivastava, Ashok K.; Patel, Nand K.; Ravi Kumar, B.; Sharma, Ashutosh; Ahn, Byungmin	Strength-Ductility Trade-Off in Dual-Phase Steel Tailored via Controlled Phase Transformation	JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE	2020	29	5	2783	2791	10.1007/s11665-020-04799-6
120	Tome, Sylvain; Etoh, Marie-Annie; Etame, Jacques; Kumar, Sanjay	Improved Reactivity of Volcanic Ash using Municipal Solid Incinerator Fly Ash for Alkali-Activated Cement Synthesis	WASTE AND BIOMASS VALORIZATION	2020	11	6	3035	3044	10.1007/s12649-019-00604-1
121	Varshney, A.; Sangal, S.; Pramanick, A. K.; Mondal, K.	On the extent of transformation of austenite to bainitic ferrite and carbide during austempering of high Si steel for prolonged duration and its effect on mechanical properties	MATERIALS SCIENCE AND ENGINEERING A	2020	793				10.1016/j.msea.2020.139764
122	Verma, Piyush Chandra; Mishra, Suman Kumari	Synthesis of iron boride powder by carbothermic reduction method	MATERIALS TODAY-PROCEEDINGS	2020	28		902	906	10.1016/j.matpr.2019.12.321