

Conn Center for Renewable Energy Research Impact Report 2021 - 2022 PUBLICATIONS BY YEAR: 2022 CONN CENTER STAFF and ASSOCIATED FACULTY														
PUBLICATIONS BY YEAR			CONN CENTER STAFF & ASSOCIATED FACULTY				2022	7.042	295	71	23	0	0	94
#	CODE	AUTHORS	TITLE	JOURNAL	IMPACT FACTOR	CITATIONS-9/2023	YEAR	ASSOC FAC PUB	CONN STAFF-DRIVEN PUB	CENTER FACULTY COLLAB	FACULTY W/CENTER CONTRIB	TOTAL PUBS		
1	ABU	Abu U.O., Akter S., Nepal B., Pitton K.A., Guiton B.S., Strachan D.R., Sumanasekera G., Wang H., Jasinski J.B.	Ultra-Narrow Phosphorene Nanoribbons Produced by Facile Electrochemical Process	ADVANCED SCIENCE	17.521	2	2022		1			1		
2	ADE	Adeniran, A; Bates, A; Schuppert, N; Menon, A; Park, S	Recent advances in aqueous redox flow battery research	JOURNAL OF ENERGY STORAGE	9.4	0	2022	1				1		
3	AKI	Akilan, AA; Enneti, RK; Balla, VK; Atre, SV	Effects of Hot Isostatic Pressing on the Properties of Laser-Powder Bed Fusion Fabricated Water Atomized 25Cr7Ni Stainless Steel	LUBRICANTS	3.584	1	2022	1				1		
4	AKI	Akilan, AA; Nath, SD; Enneti, RK; Gupta, G; Atre, SV	Mechanical and corrosion properties of gas and water atomized laser-powder bed fusion fabricated 25Cr7Ni stainless steel	MANUFACTURING LETTERS	1.215	1	2022	1				1		
5	ALH	Alharbi, SAR; Tasnim, KJ; Yu, M	The first-principles study of structural and electronic properties of two-dimensional SiC/GeC lateral polar heterostructures	JOURNAL OF APPLIED PHYSICS	3.2	0	2022	1				1		
6	ALN	Alnaanah, SA; Qatamin, AH; Dieterlen, MK; Mendes, SB	Effects of UV treatment on the properties of ultra-thin indium tin oxide films during growth and after deposition by cavity ring-down spectroscopy	OPTICS CONTINUUM	0.53	0	2022	1				1		
7	ALO	Alom, MS; Kananke-Gamage, CCW; Ramezanipour, F	Perovskite Oxides as Electrocatalysts for Hydrogen Evolution Reaction	ACS OMEGA	4.1	13	2022	1				1		
8	ALQ	Alqatamin, M; McIntyre, ML	Nonlinear Self-Synchronizing Current Control for Grid-Connected Photovoltaic Inverters	ENERGIES	3.2	2	2022	1				1		
9	ALZ	Alzahrani A., Koralalage M.K., Jasinski J., Sumanasekera G.	Direct Fabrication of Vertically Stacked Double Barrier Tunnel Junctions Based on Graphene and h-BN	ELECTRONIC MATERIALS LETTERS	3.151	2	2022		1			1		
10	AND	Andriotis A.N, Menon M.	Magnetism versus band-gap relationship in diluted magnetic semiconductors: megatomb impurity behavior of the magnetic dopant complexes	JOURNAL OF PHYSICS-CONDENSED MATTER	2.745	1	2022		1			1		
11	ANS	Ansari, TN; Sharma, S; Hazra, S; Hicks, F; Leahy, DK; Handa, S	Trichloromethyl Carbanion in Aqueous Micelles: Mechanistic Insights and Access to Carboxylic Acids from (Hetero)aryl Halides	ACS CATALYSIS	12.9	2	2022	1				1		
12	ARN	Arnold W., Shreyas V., Li Y., Koralalage M.K., Jasinski J.B., Thapa A., Sumanasekera G., Ngo A.T., Narayanan B., Wang H.	Synthesis of Fluorine-Doped Lithium Argyrodite Solid Electrolytes for Solid-State Lithium Metal Batteries	ACS APPLIED MATERIALS & INTERFACES	10.383	6	2022		1			1		
13	ARN	W Arnold, V Shreyas, S Akter, Y Li, S Halacoglu, MK Koralalage, X Guo, W Wei, G Sumanasekera, J Jasinski, B Narayanan, H Wang	Highly Conductive Iodine and Fluorine Dual Doped Argyrodite Solid Electrolyte for Lithium Metal Batteries	SOCIAL SCIENCE RESEARCH NETWORK	2.32	0	2022		1			1		
14	ASE	Asem M. Ali, Juan David Tabares, Mark W. McGinley	A machine learning approach for clinker quality prediction and nonlinear model predictive control design for a rotary cement kiln	JOURNAL OF ADVANCED MANUFACTURING AND PROCESSING	3.653	2	2022		1			1		
15	BAH	Bahadur J., Ghahremani A.H., Martin B., Pishgar S., Sunkara M.K., Druffel T., Pal K.	Solution-Processed Cu:SnO2 as an Efficient Electron Transport Layer for Fabrication of Low-Temperature Planar Perovskite Solar Cell Under Ambient Conditions	IEEE JOURNAL OF PHOTOVOLTAICS	4.401	0	2022		1			1		
16	BAJ	Bajaj, K; Andres, SA; Hofsommer, DT; Galib, M; Mashuta, MS; Bennett, B; Narayanan, B; Buchanan, RM; Bates, PJ; Grapperhaus, CA	Investigations of Bis(alkylthiocarbamate)copper Linkage Isomers	INORGANIC CHEMISTRY	5.436	0	2022	1				1		
17	BAN	Banerjee, S; Lian, YS; Liu, Y; Sussman, M	A New Method for Estimating Bubble Diameter at Different Gravity Levels for Nucleate Pool Boiling	JOURNAL OF HEAT TRANSFER-TRANSACTIONS OF THE ASME	1.855	1	2022	1				1		
18	BAN	Banerjee, S; Liu, Y; Sussman, M; Lian, YS	Depletable micro-layer for nucleate boiling simulations in micro-gravity conditions: A new approach	INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER	5.2	0	2022	1				1		
19	BUP	Bupe, P; Jackson, DJ; Harnett, CK	Electronically Reconfigurable Virtual Joints by Shape Memory Alloy-Induced Buckling of Curved Sheets	SoutheastCon Conference	N/A	0	2022	1				1		
20	CAL	Calero-Barney S.J., Andriotis A.N., Menon M., Sunkara M.K.	Plasma-assisted vapor liquid phase epitaxial growth of dilute GaSbxN1-x and GaBiylN1-y alloys: Confirmation of band gap reduction discontinuity	PHYSICAL REVIEW B	3.908	1	2022		1			1		

21	CHA	Chandrasekhar P. S., Chapagain S., Blake M., Armstrong P.J., Grapperhaus C., Druffel T.	Rapid scalable fabrication of roll-to-roll slot-die coated flexible perovskite solar cells using intense pulse light annealing	SUSTAINABLE ENERGY & FUELS - ROYAL SOC CHEMISTRY	6.813	1	2022		1				1
22	CHA	Chandrasekhar P. S., Chapagain S., Armstrong P.J., Cline C.M., van Hest Maikel F. A. M., Grapperhaus C., Druffel T.	Solvation of NiO x for hole transport layer deposition in perovskite solar cells	NANOTECHNOLOGY - IOP Publishing Ltd	3.953	1	2022		1				1
23	CHO	Chowdhury, N; Ghasemi-Fare, O	Effects of Different Drying Techniques on the Pore Size Distribution of Bentonite at Two Different Hydraulic States	GeoCongress on State of the Art and Practice in Geotechnical Engineering	N/A	0	2022	1					1
24	CLE	Jeremy Cleeman, Alex Bogut, Brijesh Mangrolia, Adeline Ripberger, Arad Maghouli, Kunal Kate, Rjiv Malhotra	Multiplexed 3D printing of Thermoplastics	International Manufacturing Science and Engineering Conference	n/a	0	2022	1					1
25	CLE	Cleeman, J; Bogut, A; Mangrolia, B; Ripberger, A; Kate, K; Zou, QZ; Malhotra, R	Scalable, flexible and resilient parallelization of fused filament fabrication: Breaking endemic tradeoffs in material extrusion additive manufacturing	ADDITIVE MANUFACTURING	11	2	2022	1					1
26	DON	Dong, WK; Li, WG; Sun, ZH; Ibrahim, I; Sheng, DC	Intrinsic graphene/cement-based sensors with piezoresistivity and superhydrophobicity capacities for smart concrete infrastructure	AUTOMATION IN CONSTRUCTION	10.3	14	2022	1					1
27	DON	Dong, WK; Li, WG; Guo, YP; Sun, ZH; Qu, FL; Liang, R; Shah, SP	Application of intrinsic cement-based sensor for traffic detections of human motion and vehicle speed	CONSTRUCTION AND BUILDING MATERIALS	7.4	6	2022	1					1
28	DOU	Dou, QQ; Whatley, T; Syed, T; Wei, W; Wang, H	Carbon nanomaterials-polymer composites for perovskite solar cells: preparation, properties and applications	JOURNAL OF MATERIALS CHEMISTRY A	11.9	7	2022	1					1
29	EBR	Ebrahimi, M; Kazemi, H; Mirbagheri, SA; Sinaeenejad, M; Rockaway, T	Integrated Approach to Treatment of High-Strength Organic Wastewater by Using Anaerobic Rotating Biological Contactor (Feb. 10.1061/(ASCE)EE.1943-7870.0001312, 2018)	JOURNAL OF ENVIRONMENTAL ENGINEERING	2.2	0	2022	1					1
30	FAN	Fanah, SJ; Ramezanipour, F	Lithium-Ion Mobility in Layered Oxide Li-2(La0.75Li0.25)(Ta1.5Ti0.5)O-7 Containing Lithium on both Intra and Inter-Stack Positions	EUROPEAN JOURNAL OF INORGANIC CHEMISTRY	2.3	3	2022	1					1
31	FER	Ferris C, Ratnayake D, Curry A, Wei D, Gerber E, Druffel T, Walsh K	Characterizing the Conductivity of Aerosol Jet Printed Silver Traces on Glass Using Intense Pulsed Light (IPL)	THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS - DIGITAL COLLECTION	3.442	1	2022		1				1
32	FIT	Fitzgerald, KM; Berfield, TA; Torbati-Sarraf, H; Pataky, GJ	Compressive creep buckling of single cell metamaterial at elevated temperatures	FATIGUE & FRACTURE OF ENGINEERING MATERIALS & STRUCTURES	3.373	0	2022	1					1
33	GAR	Garakani, AA; Heidari, B; Jozani, SM; Ghasemi-Fare, O	Numerical and Analytical Study on Axial Ultimate Bearing Capacity of Fixed-Head Energy Piles in Different Soils	INTERNATIONAL JOURNAL OF GEOMECHANICS	3.7	2	2022	1					1
34	GAU	Gautam M, Hofsommer DT, Uttarwar SS, Theaker N, Paxton WF, Grapperhaus CA, Spurgeon JM	The effect of flue gas contaminants on electrochemical reduction of CO2 to methyl formate in a dual methanol/water electrolysis system	CHEM CATALYSIS - ELSEVIER	19.7	5	2022		1				1
35	GUL	Gulati S, Mulvehill MC, Pishgar S, Spurgeon JM	In Situ Magnetic Alignment of a Slurry of Tandem Semiconductor Microwires Using a Ni Catalyst	SMALL - WILEY-V C H VERLAG GMBH	15.153	0	2022		1				1
36	GUO	Guo, FH; Jagadeesan, SN; Pidathala, RT; Kim, S; Shan, XQ; Deskins, NA; Abeykoon, AMM; Kwon, G; Olds, D; Narayanan, B; Teng, XW	Revitalizing Iron Redox by Anion-Insertion-Assisted Ferro- and Ferri-Hydroxides Conversion at Low Alkalinity	JOURNAL OF THE AMERICAN CHEMICAL SOCIETY	15	0	2022	1					1
37	HAN	Hanrahan, B; Smith, A; Bhatia, B	Pyroelectrics on purpose: A perspective on generation vs harvesting	APPLIED PHYSICS LETTERS	3.971	2	2022	1					1
38	HAN	Han, MS; Harnett, CK	Soft, All-Polymer Optoelectronic Tactile Sensor for Stick-Slip Detection	ADVANCED MATERIALS TECHNOLOGIES	6.8	0	2022	1					1
39	HAZ	Hazra, S; Gallou, F; Handa, S	Water: An Underestimated Solvent for Amide Bond-Forming Reactions	ACS SUSTAINABLE CHEMISTRY & ENGINEERING	8.4	15	2022	1					1
40	HOF	Hofsommer DT, Liang Y, Uttarwar SS, Gautam M, Pishgar S, Gulati S, Grapperhaus CA, Spurgeon JM	The pH and Potential Dependence of Pb-Catalyzed Electrochemical CO2 Reduction to Methyl Formate in a Dual Methanol/Water Electrolyte	CHEMSUSCHEM - WILEY-V C H VERLAG GMBH	9.14	10	2022		1				1
41	HON	Hona, RK; Karki, SB; Dhaliwal, GS; Guinn, M; Ramezanipour, F	High thermal insulation properties of A(2)FeCoO(6-delta) (A = Ca, Sr)	JOURNAL OF MATERIALS CHEMISTRY C	6.4	0	2022	1					1
42	ISL	Islam, MS; Challa, S; Yassin, MH; Vankayala, SS; Beharic, J; Harnett, CK	MEMS Bimorph Fiber-Gripping Actuators	5th International Conference on Manipulation, Automation, and Robotics at Small Scales (MARSS)	N/A	1	2022	1					1
43	ISL	Islam, A; Sussman, M; Hu, H; Lian, YS	Simulation of drop impact on substrate with micro-wells	PHYSICS OF FLUIDS	4.6	3	2022	1					1
44	JIA	Jiang, H; Ziegler, H; Zhang, ZN; Zhang, H; Le Barbenchon, L; Atre, S; Chen, YY	3D printed tubular lattice metamaterials for mechanically robust stents	COMPOSITES PART B-ENGINEERING	11.322	13	2022	1					1
45	JIA	Jiang, H; Ziegler, H; Zhang, ZN; Atre, S; Chen, YY	Bending behavior of 3D printed mechanically robust tubular lattice metamaterials	ADDITIVE MANUFACTURING	11.632	13	2022	1					1

46	JOS	Joshi, PB (Joshi, Padmanabh B.) [1] ; Karki, N (Karki, Nawaraj) [1] ; Wilson, AJ	Electrocatalytic CO2 Reduction in Acetonitrile Enhanced by the Local Environment and Mass Transport of H2O	ACS ENERGY LETTERS	22	11	2022	1					1
47	JOS	Joshi, PB; Wilson, AJ	Understanding electrocatalysis at nanoscale electrodes and single atoms with operando vibrational spectroscopy	CURRENT OPINION IN GREEN AND SUSTAINABLE CHEMISTRY	9.3	1	2022	1					1
48	JOS	Joshi, PB; Wilson, AJ	Plasmonically enhanced electrochemistry boosted by nonaqueous solvent	JOURNAL OF CHEMICAL PHYSICS	4.4	0	2022	1					1
49	KAN	Kananke-Gamage, CCW; Ramezanipour, F	Effect of structural symmetry on magnetic, electrical and electrocatalytic properties of isolectronic oxides A2LaMn2O7 (A= Sr 2+, Ca2+)	JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS	4	3	2022	1					1
50	KAR	Karki S.B., Andriotis A.N., Menon M., Ramezanipour F.	Enhancement of Electrocatalytic Activity for both Hydrogen and Oxygen Evolution Reactions of a Perovskite Oxide	JOURNAL OF PHYSICAL CHEMISTRY C	4.177	1	2022	1					1
51	KAR	Karki, SB; Hona, RK; Yu, M; Ramezanipour, F	Enhancement of Electrocatalytic Activity as a Function of Structural Order in Perovskite Oxides	ACS CATALYSIS	12.9	10	2022	1					1
52	KAR	Karki, SB; Hona, RK; Ramezanipour, F	Electrocatalytic activity and structural transformation of Ca2Sr2Mn2MO10-delta (M = Fe, Co)	IONICS	2.8	2	2022	1					1
53	KAR	Karki, SB; Hona, RK; Ramezanipour, F	Sr3Mn2O6 and Sr3FeMnO6 for oxygen and hydrogen evolution electrocatalysis	JOURNAL OF SOLID STATE ELECTROCHEMISTRY	2.5	1	2022	1					1
54	KAU	Kaur G., Jasinski J.B., Gallou F., Handa S.	Metal-Micelle Interaction Leading to Spontaneous Formation of Ligand-Free Palladium(0) Nanoparticles: Highly Efficient Catalysis Enabling Biaryl Ketone Formation from Carboxylic Acid Derivatives	ACS APPLIED MATERIALS & INTERFACES	10.383	1	2022	1					1
55	KOR	Koralalage MK, Parish R, Bates AM, McNamara S, Paxton WF, Sumanasekera GU	The Influence of Adsorbate Desorption and Kinetic Isotope Effects on the Surface Conductivity of Diamond	JOURNAL OF ELECTRONIC MATERIALS - SPRINGER	2.047	0	2022		1				1
56	KOR	MK Koralalage, V Shreyas, WR Arnold, S Akter, A Thapa, J Jasinski, G Sumanasekera, H Wang, B Narayanan	Quasi-Solid-State Lithium-Sulfur Batteries Consist of Super P – Sulfur Composite Cathode	THE ELECTROCHEMICAL SOCIETY	4.371	0	2022		1				1
57	LIH	Li, HA; Yang, WD; Ma, QC; Qian, ZH; Yang, L	Specific Sensitivity Analysis and Imitative Full Stress Method for Optimal BCCZ Lattice Structure by Additive Manufacturing	CRYSTALS	2.7	1	2022	1					1
58	LIN	Lin, JT; Newquist, CA; Harnett, CK	Multitouch Pressure Sensing With Soft Optical Time-of-Flight Sensors	IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT	5.6	5	2022	1					1
59	LIU	Liu, Y; Sussman, M; Lian, YS; Hussaini, MY; Vahab, M; Shoele, K	A Novel Supermesh Method for Computing Solutions to the Multi-material Stefan Problem with Complex Deforming Interfaces and Microstructure	JOURNAL OF SCIENTIFIC COMPUTING	2.5	1	2022	1					1
60	LIU	Liu, HJ; Dong, YQ; Galib, M; Cai, ZH; Stan, L; Zhang, L; Suwardi, A; Wu, J; Cao, J; Tan, CK; Sankaranarayanan, SKRS; Narayanan, B; Zhou, H; Fong, DD	Controlled Formation of Conduction Channels in Memristive Devices Observed by X-ray Multimodal Imaging	ADVANCED MATERIALS	29.4	2	2022	1					1
61	LIX	Li, XY; Wilson, CT; Zhang, LA; Bhatia, B; Zhao, L; Leroy, A; Brandt, O; Orta-Guerra, R; Youngblood, JP; Trice, RW; Wang, EN	Design and modeling of a multiscale porous ceramic heat exchanger for high temperature applications with ultrahigh power density	INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER	5.431	2	2022	1					1
62	LIY	Li Y., Halacoglu S., Shreyas V., Arnold W., Guo X.L., Dou Q.Q., Jasinski J.B., Narayanan B., Wang H.	Highly efficient interface stabilization for ambient-temperature quasi-solid-state sodium metal batteries	CHEMICAL ENGINEERING JOURNAL	16.744	3	2022	1					1
63	LIY	Y Li, X Guo, H Wang	Solid Composite Electrolytes for Solid-State Alkali Metal Batteries	ACS Symposium SeriesVol. 1413 - AMERICAN CHEMICAL SOCIETY	0.163	0	2022	1					1
64	MAL	Malali P, Muchharla B, Sadasivuni KK, Cao W, Elsayed-Ali HE, Adedeji A, Karoui A, Abdullah AM, Spurgeon JM, Kumar B	Low Platinum-Loaded Molybdenum Co-catalyst for the Hydrogen Evolution Reaction in Alkaline and Acidic Media	LANGMUIR - AMER CHEMICAL SOC	4.331	1	2022		1				1
65	MAL	Sreesha Malayil, Athira Nair Surendran, Kunal Kate, Jagannadh Satyavolu	Impact of acid hydrolysis on composition, morphology and xylose recovery from almond biomass (skin and shell)	Bioresource Technology Reports	7.8	5	2022		1				1
66	MAR	Martin B., Amos D., Brehob E., van Hest Maikel F. A. M., Druffel T	Techno-economic analysis of roll-to-roll production of perovskite modules using radiation thermal processes	APPLIED ENERGY - ELSEVIER SCI LTD	11.446	6	2022		1				1
67	MAR	Martin, B; Amos, D; Brehob, E; van Hest, MFAM; Druffel, T	Techno-economic analysis of roll-to-roll production of perovskite modules using radiation thermal processes	APPLIED ENERGY	11.446	6	2022		1				1
68	MCG	McGinley, W., M. & Kolisnichenko, M.	Use of Steel Fibers with Active Enamel Coating for Lap Spice Confinement in Masonry Walls	ASTM Special Technical Publications	1.333	0	2022		1				1
69	MEH	Mehraeen, N; Ahmadi, MM; Chasemi-Fare, O	Numerical modeling of mixed convection near a vertical heat source in saturated granular soils	GEO THERMICS	3.9	0	2022	1					1
70	MIS	Mishra R, Aamiri OB, Satyavolu J, Kate K	Effect of process conditions on the filament diameter in single screw extrusion of natural fiber composite	MANUFACTURING LETTERS - ELSEVIER	1.215	2	2022	1					1

71	NAT	Nath, SD; Okello, A; Kelkar, R; Gupta, G; Kearns, M; Atre, SV	Adapting L-PBF process for fine powders: a case study in 420 stainless steel	MATERIALS AND MANUFACTURING PROCESSES	4.783	7	2022	1					1
72	OGU	Ogulu D., Bora P.P., Bihani M., Sharma S., Ansari T.N., Wilson A.J., Jasinski J.B., Gallou F., Handa S.	Phosphine Ligand-Free Bimetallic Ni(0)Pd(0) Nanoparticles as a Catalyst for Facile, General, Sustainable, and Highly Selective 1,4-Reductions in Aqueous Micelles	ACS APPLIED MATERIALS & INTERFACES	10.383	7	2022	1					1
73	PAN	Pang, QQ; Meng, JS; Gupta, S; Hong, XF; Kwok, CY; Zhao, J; Jin, YX; Xu, LK; Karahan, O; Wang, ZQ; Toll, S; Mai, LQ; Nazari, LF; Balasubramanian, M; Narayanan, B; Sadoway, DR	Fast-charging aluminium-chalcogen batteries resistant to dendritic shorting	NATURE	64.8	18	2022	1					1
74	PAU	Paudel, M; Daniels, B; Arts, AM; Gupta, A; Kalbfleisch, T; Hofsommer, DT; Grapperhaus, CA; Buchanan, RM; Gupta, G	Unravelling the potential of disposable and modifiable pencils as catalyst supports for hydrogen evolution reaction	NEW JOURNAL OF CHEMISTRY	3.925	0	2022	1					1
75	PHI	Phipps CA, Hofsommer DT, Toda MJ, Nkurunziza F, Shah B, Spurgeon MJ, Kozlowski PM, Buchanan RM, Grapperhaus CA	Ligand-Centered Hydrogen Evolution with Ni(II) and Pd(II)DMTH	INORGANIC CHEMISTRY - AMER CHEMICAL SOC	5.436	2	2022	1					1
76	PHI	Phipps, CA; Hofsommer, DT; Toda, MJ; Nkurunziza, F; Shah, B; Spurgeon, JM; Kozlowski, PM; Buchanan, RM; Grapperhaus, CA	Ligand-Centered Hydrogen Evolution with Ni(II) and Pd(II)DMTH	INORGANIC CHEMISTRY	5.436	2	2022	1					1
77	POR	Portaro, M; Brittain, R; Harnett, C	Characterizing the pressure response of microstructured materials for soft optical skins	MRS ADVANCES	0.8	0	2022	1					1
78	QUC	Qu, C; McNamara, S; Walsh, K	Design of sphere seeds for glancing angle deposition	JOURNAL OF VACUUM SCIENCE & TECHNOLOGY A	2.9	2	2022	1					1
79	QUC	Qu, C; McNamara, S; Walsh, K	Design of sphere seeds for glancing angle deposition	JOURNAL OF VACUUM SCIENCE & TECHNOLOGY A	2.9	2	2022	1					1
80	RAH	Rahaman M.S., Tulaphol S., Hossain A., Jasinski J.B., Lalvani S.B., Crocker M., Maihom T., Sathitsuksanoh N.	Aluminum-Containing Metal-Organic Frameworks as Selective and Reusable Catalysts for Glucose Isomerization to Fructose	CHEMCATCHEM	5.501	2	2022	1					1
81	RAH	Rahaman M.S., Tulaphol S., Hossain A., Jasinski J.B., Sun N., George A., Simmons B.A., Maihom T., Crocker M., Sathitsuksanoh N.	Cooperative Bronsted-Lewis acid sites created by phosphotungstic acid encapsulated metal-organic frameworks for selective glucose conversion to 5-hydroxymethylfurfural	FUEL - ELSEVIER SCI LTD	8.035	12	2022	1					1
82	RAH	Rahaman MS, Tulaphol SC, Hossain MAM, Mulvehill M, Spurgeon JM, Maihom T, Sathitsuksanoh N	Mechanism of transfer hydrogenation of carbonyl compounds by zirconium and hafnium-containing metal-organic frameworks	MOLECULAR CATALYSIS - ELSEVIER	5.089	2	2022	1					1
83	RAM	Ramezani, M; Kim, YH; Sun, ZH; Sherif, MM	Influence of carbon nanotubes on properties of cement mortars subjected to alkali-silica reaction	CEMENT & CONCRETE COMPOSITES	10.5	10	2022	1					1
84	SAT	Satawara A.M., Gupta S.K., Andriotis A.N., Menon M., Gajjar P.N.	Capacity development of Pd doped Si2BN nanotube for hydrogen storage	INTERNATIONAL JOURNAL OF HYDROGEN ENERGY	7.139	0	2022		1				1
85	SCH	Schuppert N.D., Mukherjee S., Jasinski J.B., Kumar B., Adeniran A., Park S.	The potential application of exfoliated MoS2 to aqueous lithium-ion batteries	ELECTROCHEMISTRY COMMUNICATIONS	5.443	0	2022	1					1
86	SHA	Sharma S., Jasinski J.B., Braje W.M., Handa S.	Ultrasmall Cu-I Nanoparticles Stabilized on Surface of HPMC: An Efficient Catalyst for Fast and Organic Solvent-Free Tandem Click Chemistry in Water	CHEMSUSCHEM	9.14	1	2022	1					1
87	SHA	Sharma S., Parmar S., Ibrahim F., Clark A.H., Nachtegaal M., Jasinski J.B., Gallou F., Kozlowski P.M., Handa S.,	Sustainable and Bench-Stable Photoactive Aqueous Nanoaggregates of Cu(II) for ppm Level Cu(I) Catalysis in Water	ADVANCED FUNCTIONAL MATERIALS	19.924	6	2022	1					1
88	SHA	Shaikh, MQ; Berfield, TA; Atre, SV	Residual stresses in additively manufactured parts: predictive simulation and experimental verification	RAPID PROTOTYPING JOURNAL	4.043	3	2022	1					1
89	SOM	Somireddy, M; Czekanski, A; Atre, SV	Modelling of Failure Behaviour of 3D-Printed Composite Parts	APPLIED SCIENCES-BASEL	2.838	0	2022	1					1
90	SOS	Sosunov A.V., Rajapakse M., Rudakov G.A., Ponomarev R.S., Henner V.K., Jasinski J.B., Buchberger D.A., Reza M.S., Karki B., Sumanasekera G.	Pseudocapacitance of Microporous Carbon/Polyaniline Composites	SURFACE ENGINEERING AND APPLIED ELECTROCHEMISTRY	0.243	0	2022		1				1
91	SPU	Spurgeon JM, Theaker N, Phipps CA, Ulltarwar SS, Grapperhaus CA	Comparative Technoeconomic Analysis of Pathways for Electrochemical Reduction of CO2 with Methanol to Produce Methyl Formate	ACS SUSTAINABLE CHEMISTRY & ENGINEERING - AMER CHEMICAL SOC	9.224	0	2022	1					1
92	SUR	Surendran AN, Ajjarapu KPK, Arumugham AA, Kate K, Satyavolu J	Characterization of industry grade soybean wax for potential applications in natural fiber reinforced composite (NFRC) filaments	INDUSTRIAL CROPS AND PRODUCTS - ELSEVIER	6.449	2	2022		1				1
93	SYE	Syed, AS; Sierra-Sosa, D; Kumar, A; Elmaghaby, A	Making Cities Smarter-Optimization Problems for the IoT Enabled Smart City Development: A Mapping of Applications, Objectives, Constraints	SENSORS	3.847	3	2022	1					1
94	TAM	Tamizdoust, MM; Ghasemi-Fare, O	Long-term Thermo-hydraulic Response of the Shallow Subsurface soil in the Vicinity of a Buried Horizontal Heat Source	INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER	5.2	3	2022	1					1
95	TAM	Tamizdoust, MM; Ghasemi-Fare, O	Assessment of thermal, hydraulic, and mechanical constitutive relations on the temperature-induced stress and pore fluid pressure in saturated clays	COMPUTERS AND GEOTECHNICS	5.3	1	2022	1					1

96	TAM	Tamizdoust, MM; Ghasemi-Fare, O	Convective Drying Analysis of Transversely Isotropic Natural Clay	JOURNAL OF GEOTECHNICAL AND GEOENVIRONMENTAL ENGINEERING	3.9	1	2022	1					1
97	TAS	Tasnim, KJ; Alharbi, SAR; Musa, MRK; Lovell, SH; Akridge, ZA; Yu, M	Insight into the stacking and the species-ordering dependences of interlayer bonding in SiC/GeC polar heterostructures	NANOTECHNOLOGY	3.5	3	2022	1					1
98	TEL	Telfah, H; Sharma, K; Paul, AC; Riyadh, SMS; Miller, TA; Liu, JJ	A combined experimental and computational study on the transition of the calcium isopropoxide radical as a candidate for direct laser cooling	PHYSICAL CHEMISTRY CHEMICAL PHYSICS	3.3	1	2022	1					1
99	THA	Thapa AK, Lavery B.W., Hona R.K., Sapkota N., Korlallage M.K., Adeniran A., Ajayi B.P., Zain M.A., Wang H., Druffel T., Jasinski J.B., Sumanasekera G.U., Sunkara M.K., Yoshio M.	Mn-Rich NMC Cathode for Lithium-Ion Batteries at High-Voltage Operation	ENERGIES	3.252	0	2022		1				1
100	VIL	Villarrubia, CNW; Tumas, KC; Chauhan, R; MacDonald, T; Dattelbaum, AM; Omberg, K; Gupta, G	Long-term stabilization of DNA at room temperature using a one-step microwave assisted process	EMERGENT MATERIALS	3.8	1	2022	1					1
101	WEE	Weerasekera N, Ajarapu KPK, Sudan K, Sumanasekera G, Kate K, Bhatia B	Barocaloric Properties of Thermoplastic Elastomers	FRONTIERS IN ENERGY RESEARCH	3.858	0	2022	1					1
102	WEE	Weerasekera, N; Ajarapu, KPK; Sudan, K; Sumanasekera, G; Kate, K; Bhatia, B	Barocaloric Properties of Thermoplastic Elastomers	FRONTIERS IN ENERGY RESEARCH	3.858	1	2022	1					1
103	WEI	Wei, DM; Challa, S; Islam, MS; Beharic, J; Harnett, CK; Popa, DO	Multi-Robot Collaboration for Electronic Textile Fabrication	5th International Conference on Manipulation, Automation, and Robotics at Small Scales (MARSS)	N/A	1	2022	1					1
104	WUB	Wu, B; Miraghaee, S; Handa, S; Gallou, F	Nanoparticles for catalysis in aqueous media	CURRENT OPINION IN GREEN AND SUSTAINABLE CHEMISTRY	9.3	1	2022	1					1
105	YAN	Yang, C; Olsen, T; Lau, ML; Smith, KA; Hattar, K; Sen, A; Wu, YQ; Hou, DW; Narayanan, B; Long, M; Wharry, JP; Xiong, H	In situ ion irradiation of amorphous TiO2 nanotubes	JOURNAL OF MATERIALS RESEARCH	2.7	4	2022	1					1
106	ZHU	Zhu, CC; Wang, HL; Chen, B; Chen, YN; Yang, T; Yin, JP; Liu, JJ	Fine and hyperfine interactions of PbF studied by laser-induced fluorescence spectroscopy	JOURNAL OF CHEMICAL PHYSICS	4.4	0	2022	1					1