

University of Louisville
Conn Center for Renewable Energy Research
Impact Reporting: Publications 2023
Rev. 06/2024, WoS by AM

2023		PUBLICATIONS BY YEAR	CONN CENTER STAFF & ASSOCIATED FACULTY						6.027	181	62	29	91	5.51	140	7.13	41
#	INDEX	AUTHORS	TITLE	JOURNAL	IMPACT FACTOR (IF)	CITATIONS (CT)	ASSOC FAC (AF) PUB	CONN STAFF (CS)-DRIVEN PUB	TOTAL PUBS	IF AF	CIT AF	IF CS	CIT CS				
1	ABD	A Abdelkawy, I Alkabbany, A Ali, A Farag	Measuring Student Behavioral Engagement using Histogram of Actions	arXiv preprint arXiv:2307.09420.		0	1		1								
2	ABU	U.O. Abu, D. Vithanage, A. Vitharana, J.B. Jasinski, and G. Sumanasekera	Degradation Studies of Air-Exposed Black Phosphorous and Black Arsenic Phosphorous	ChemEngineering, 7(2), p.18 (2023).	2.5	4		1	1								
3	ADE	A. Adeniran and Sam Park	Optimized cooling and thermal analysis of lithium-ion pouch cell under fast charging cycles for electric vehicles	Journal of Energy Storage (Impact Factor: 6.87), Volume 68, 15, September 2023, 107580	9.4	4	1		1								
4	ADH	P.K. Adhihetty, S. Halder, J.B. Jasinski, X.A. Fu, M.H. Nantz	Harnessing the cation-π interactions of metalated gold monolayer-protected clusters to detect aromatic volatile organic compounds	Talanta 253, 123915 (2023).	6.1	1		1	1								
5	ADK	Adkins, J.F.; Kaur, A.; Alom, M.S.; Chandran, H.; Ramezanipour, F.; Wilson, A.J.	Directing the Size and Dispersity of Silver Nanoparticles with Kudzu Leaf Extracts	RSC Advances, 2023, 13, 25360–25368	3.9	0	1		1								
6	AKI	AA Akilan, S Kumar, MQ Shaikh, RK Enneti, SV Atre	Effects of Powder Characteristics and Chemical Composition on the Properties of 25Cr7Ni Stainless Steel Fabricated by Laser-Powder Bed Fusion and Evaluation of Process Simulation	Metals 13 (8), 1476	2.9	0	1		1								
7	ALK	I Alkabbany, AM Ali, C Foreman, T Tretter, N Hindy, A Farag	An Experimental Platform for Real-Time Students Engagement Measurements from Video in STEM Classrooms	Sensors 23 (3), 1614	3.9	2	1		1								
8	ALO	M.S. Alom, F. Ramezanipour	Electrocatalytic Activity of layered oxides SrLaAl1/2M1/2O4 (M = Mn, Fe, Co) for Hydrogen- and Oxygen-Evolution Reactions	Materials Chemistry and Physics, 2023, 293, 126942	4.6	5	1		1								
9	ALO	M.S. Alom, F. Ramezanipour	Vacancy Effect on Electrocatalytic Activity of LaMn½Co½O3-δ for Hydrogen and Oxygen Evolution Reactions	Chemical Communications, 2023, 59, 5870–5873. (Invited Article: Pioneering Investigators Collection 2023)	4.9	4	1		1								
10	ARM	P.J. Armstrong., S. Chapagain, R. Panta, C. Grapperhaus, and T. Druffel	Synthesizing and formulating metal oxide nanoparticle inks for perovskite solar cells	Chem Commun (Camb). 59(82): p. 12248-12261 10.1039/d3cc02830e	4.9	0		1	1								
11	ARN	W. Arnold, V. Shreyas, S. Akter, Y. Li, S. Halacoglu, M.B. Kalutara Korallalage, X. Guo, D. Vithanage, W. Wei, G. Sumanasekera., and J.N. Jasinski	Highly Conductive Iodine and Fluorine Dual-Doped Argyrodite Solid Electrolyte for Lithium Metal Batteries	The Journal of Physical Chemistry C (2023).	3.7	3		1	1								
12	ARU	A Arumugham Akilan, CW Gal, SD Natha, A Gokce, D Chalasani, G Gupta	Properties of Water Atomized 25Cr7Ni Stainless Steel Processed by Laser-Powder Bed Fusion	JOM 75 (5), 1710-1720	2.6	0	1		1								
13	BAI	L. Bai, J. Zhang, X. Zhu, M. Alam, and Z. Sun	A machine learning ensemble model for predicting pavement conditions using automatic laser crack measurement data	International Journal of Pavement Engineering, Vol. 24, Issue 1, 2188591	3.8	2	1		1								
14	BAJ	K. Bajaj, S.A. Andres, D.T. Hofsommer, O.C. Michael, M.S. Mashuta, P.J. Bates, R.M. Buchanan, C.A. Grapperhaus	Ligand and Linkage Isomers of Bis(ethylthiocarbamate)Copper Complexes with Cyclic C6H8 Backbone Substituents: Synthesis, Characterization, and Antiproliferation Activity	Eur. J. Inorg. Chem. 2023, accepted (10.1002/ejic.202300447)	2.3	0	1		1								
15	BAJ	K. Bajaj, S.A. Andres, D.T. Hofsommer, A.F. Greene, O. Hietsoi, M.S. Mashuta, T. Weis, L.J. Beverly, P.J. Bates, R.M. Buchanan, C.A. Grapperhaus	Physical structure of constitutional isomers influences antiproliferation activity of thiosemicarbazone-alkylthiocarbamate copper complexes	J. Inorg. Biochem. 2023, 246, 112288 (10.1016/j.jinorgbio.2023.112288)	3.9	1	1		1								
16	BAN	Banerjee, S (Banerjee, Sandipan) [1]; Sussman, M (Sussman, Mark) [2]; Lian, YS (Lian, Yongsheng) [1]	Dimensional Analysis in Error Reduction for Prediction of Nucleate Boiling Heat Flux by Artificial Neural Networks for Limited Dataset	ASME JOURNAL OF HEAT AND MASS TRANSFER Volume145Issue6 DOI10.1115/1.4056539		0	1		1								
17	BAO	L. Bao, M.P. Running	3-D Time-Lapse Imaging of Cell Wall Dynamics Using Calcofluor in the Moss Physcomitrium patens	J. Vis. Exp. 192, e64651, doi:10.3791/64651.	1.2	0	1		1								
18	BID	Biddlecom, J (Biddlecom, Jacob) [1]; Li, YX (Li, Yuxin) [1]; Zhao, X (Zhao, Xin) [1]; Berfield, TA (Berfield, Thomas A. A.) [2]; Pataky, GJ (Pataky, Garrett J. J.) [1]	Femtosecond Laser Shock Peening Residual Stress and Fatigue Life of Additive Manufactured AISI10Mg	JOM Volume75Issue6Page1964-1974 DOI10.1007/s11837-023-05820-8	2.6	2	1		1								
19	BIJ	B. Bijan, and L. Bai	An optimization approach for managing electric vehicle and reused battery charging in a vehicle to grid system under an electricity rate with demand charge	Sustainable Energy, Grids and Networks 36 (2023): 101145	5.4	3	1		1								
20	BOU	Bouzid, A (Bouzid, Abdelhamid) [1]; Sierra-Sosa, D (Sierra-Sosa, Daniel) [2]; Elmaghbray, A (Elmaghraby, Adel) [1]	A Robust Pedestrian Re-Identification and Out-Of-Distribution Detection Framework	Drones, Volume7Issue6 DOI10.3390/drones7060352	4.8	0	1		1								

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21	BRO	C.L. Brosseau*, A. Colina*, J.V. Perales-Rondón, A.J. Wilson*, P.B. Joshi, B. Ren*, X. Wang*	Electrochemical Surface-Enhanced Raman Spectroscopy	Nat Rev Methods Primers 2023, 3, 79	39.8	14	1		1
22	CHA	S. Chapagain, B. Martin, P. Armstrong, C.L. Perkins, M.O. Reese, T. Druffel, and C.A. Grapperhaus	High Performing Inverted Flexible Perovskite Solar Cells via Solution Phase Deposition of Yttrium-Doped SnO2 Directly on Perovskite	Acs Applied Energy Materials. 6(9): p. 4496-4502 10.1021/acsaem.2c03720	6.4	6		1	1
23	CHE	D.Y. Cherati, O. Ghasemi-Fare	A Lode-dependent failure and yield criterion for cohesive and non-cohesive materials.	International Journal of Geomechanics, ASCE, 23(7)	3.7	0	1		1
24	CHE	M.J. Chenari, M. Payan, O. Ghasemi-Fare	Non-isothermal failure envelopes of strip shallow foundations resting on partially saturated clay subjected to combined inclined and eccentric loadings	International Journal of Geomechanics, ASCE. 23 (1)	3.7	10	1		1
25	CHI	CR Chilakamarry, IA Khilji, R Sirohi, A Pandey, G Baskar, J Satyavolu	Maximizing the value of biodiesel industry waste: Exploring recover, recycle, and reuse for sustainable environment	Environmental Technology & Innovation 32, 2023 103447	7.1	2		1	1
26	DEN	Z Deng, W Li, W Dong, Z Sun, J Kodikara, D Sheng	Multifunctional asphalt concrete pavement toward smart transport infrastructure: Design, performance and perspective	Composites Part B: Engineering, 2023	13.1	6	1		1
27	DON	Dong, Z., Chen, X., Ritter, J., Bai, L., Huang, J.	American Society of Anesthesiologists Physical Status Classification significantly affects the performances of machine learning models in intraoperative hypotension inference	Journal of Clinical Anesthesia. 2023. DOI: 10.1016/j.jclinane.2023.111309.	6.7	0	1		1
28	ELS	A Elsayed, S Wally, I Alkabbany, A Ali, A Farag	Leveraging machine learning to enhance climate models: a review	arXiv preprint arXiv:2311.09413			1		1
29	FEN	H. Feng, J. Liang, A. Guo, L. Lv, and Z. Sun	Development and optimization design of ultra-high ductile magnesium phosphate cement-based composite using fly ash and silica fume	Cement and Concrete Composites, Vol. 137, March, 104923	10.5	16	1		1
30	FIT	Fitzgerald, KM (Fitzgerald, Kaitlynn M.) [1] ; Berfield, TA (Berfield, Thomas A.) [2] ; Torbati-Sarraf, H (Torbati-Sarraf, Hamid) [3] ; Pataky, GJ (Pataky, Garrett J.) [1]	Compressive creep buckling of single cell metamaterial at elevated temperatures	Fatigue & Fracture of Engineering Materials & Structures, Volume46Issue2Page366-378 DOI10.1111/ffe.13871	3.7	0	1		1
31	GAU	M. Gautam, F. Nkurunziza, M.C. Mulvehill, S.S. Uttarwar, D.T. Hofsommer, C.A. Grapperhaus, J.M. Spurgeon	Two-Membrane Dual Non-Aqueous/Aqueous Electrolyte Flow Cell Operation for Electrochemical Conversion of CO2 to Methyl Formate	ChemSusChem 2023, e202301337 (10.1002/cssc.202301337)	8.4	1	1		1
32	GUL	S. Gulati, M.C. Mulvehill, T.C. Thompson, and J.M. Spurgeon	Optical properties and photocatalytic performance of Si/TiO2 tandem semiconductor microwire slurries	Energy & Fuels, 2023, 37 (12), 8573-8582. DOI: 10.1021/acs.energyfuels.3c00568	5.3	0		1	1
33	GUO	A. Guo, Z. Sun, N. Sathitsuksanoh, and H. Shang	Dispersion of sonicated sulfated cellulose nanocrystals and their effect on the mechanical properties of cement mortars	ASCE Journal of Materials in Civil Engineering, Vol. 35, No. 6, 04023149	3.2	0	1		1
34	GUO	A. Guo, Z. Sun, H. Feng, H. Shang, N. Sathitsuksanoh	State-of-the-art review on the use of lignocellulosic biomass in cementitious materials	Sustain. Struct., 3, DOI:10.54113/j.sust.52023.000023				1	1
35	HAL	S. Halacoglu, Li, Y., Arnold, W., Shreyas, V., Guo, X., Jasinski, J.B., Narayanan, B. and Wang, H.	Solvent-free and low temperature synthesis of chalcogenide Na superionic conductors for solid-state batteries	Chemical Engineering Journal, 468, p.143624 (2023).	15.1	1		1	1
36	HAS	M Hassaballah, YM Wazery, IE Ibrahim, A Farag	Ecg heartbeat classification using machine learning and metaheuristic optimization for smart healthcare systems	Bioengineering 10 (4), 429	4.6	11	1		1
37	HAS	B. Hasanzadeh, and Z. Sun	Measurements of breakdown and buildup of thixotropy in cement pastes containing diatomaceous earth	Journal of Civil Engineering and Construction, Vol. 12, No. 2, pp. 100-110		0	1		1
38	HED	G. Hedouin, S. Sharma, K. Kaur, R.H. Choudhary, J.B. Jasinski, F. Gallou, and S. Handa,	Ligand-Free Ultrasmall Recyclable Iridium (0) Nanoparticles for Regioselective Aromatic Hydrogenation of Phosphine Oxide Scaffolds: An Easy Access to New Phosphine Ligands	Angewandte Chemie International Edition, p. e202307139 (2023).	16.6	1		1	1
39	HEM	J.V. Hemmert, P.B. Joshi†, A.J. Wilson*	Tracking electrochemistry at single nanoparticles with surface-enhanced Raman scattering spectroscopy and microscopy	J. Vis. Exp. 2023, 195, e65486	1.2	1	1		1
40	HOF	D.T. Hofsommer, M. Gautam, S.S. Uttarwar, C.A. Grapperhaus, and J.M. Spurgeon	Prolonged Stability of Pb-catalyzed CO2 Electroreduction to Methyl Formate in Acidic Methanol	ACS Appl. Energy Mater., 2023, 6 (4), 2624-2632. doi.org/10.1021/acsaem.3c00166	6.4	5		1	1
41	HON	R. K. Hona, A. D. Azure, M. Guinn, U.S. Phuyal, K. Stroh, A. K. Thapa	Ionic Conductivity of K-ion Glassy Solid Electrolytes of K2S-P2S5-KOTf System	Int. J. of Molecular Sciences, 2023, 24, 16855	5.6	0		1	1
42	ISL	Islam, A (Islam, Ahmed) [1] ; Lian, YS (Lian, Yongsheng) [1]	Numerical study of drop impact on slippery lubricated surfaces	Physics of Fluids Volume35Issue3 DOI10.1063/5.0137313	4.6	4	1		1

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43	JON	Jones, IW (Jones, Ian W.) [1]; Berson, JS (Bersson, Jonathan S.) [1]; Liu, JJ (Liu, Jinjun) [1], [3]; Sharma, K (Sharma, Ketan) [2]; Vasilyev, OA (Vasilyev, Oleg A.) [2]; Miller, TA (Miller, Terry A.) [2]; Stanton, JF (Stanton, John F.) [4]	Calculated and Empirical Values of Vibronic Transition Dipole Moments of Reactive Chemical Intermediates for Determination of Concentrations	Journal of Physical Chemistry A Volume127Issue21Page4670-4681 DOI10.1021/acs.jpca.3c01584	2.9	0	1		1
44	JOS	P.B. Joshi and A.J. Wilson*	Potential-dependent temporal dynamics of CO surface concentration in electrocatalytic CO2 reduction	J. Phys. Chem. Lett. 2023, 14, 5754-5759	5.7	2	1		1
45	KAN	C.C.W. Kananke-Gamage, F. Ramezanipour	Isostructural Oxides Sr3Ti2-xMxO7-δ (M = Mn, Fe, Co; x = 0, 1) as Electrocatalysts for Water Splitting	Inorganics, 2023, 11, 172.(Invited Article)	2.9	0	1		1
46	KAN	C.C. W. Kananke-Gamage, M.S. Alom, F. Ramezanipour	Pseudocapacitive Properties of Isostructural Oxides Sr2LaBMnO7 (B = Co, Fe)	ChemPhysChem, 2023, e202300463	2.9	0	1		1
47	KAN	C.C.W. Kananke-Gamage, F. Ramezanipour	Structure Effect on Pseudocapacitive Properties of A2LaMn2O7 (A = Ca, Sr)	Energy Technology, 2023, 11, 2201249	3.8	2	1		1
48	KAR	S.B. Karki, F. Ramezanipour	Enhancement of Electrocatalytic and Pseudocapacitive Properties as a Function of Structural Order in A2Fe2O5 (A = Sr, Ba)	Molecules, 2023, 28, 5947	4.6	1	1		1
49	KHA	S Khanjar, P Tyagi, KPK Ajarapu, K Kate	Mixed Matrix Thermoset Casting with Thermoplastic Fused Filament Fabrication 3D Printing	Physiology 38 (S1), 5733152	8.4	1	1		1
50	KHI	IA Khilji, CR Chilakamarry, AN Surendran, K Kate, and J Satyavolu	Natural Fiber Composite Filaments for Additive Manufacturing: A Comprehensive Review	Sustainability 2023, 15, 16171	3.9	0		1	1
51	KUM	S Kumar, SV Atre	Design and optimization of brake disc using Multi-Objective genetic algorithm	arXiv preprint arXiv:2303.06568		2	1		1
52	LEE	J. Lee, P.B. Joshi, A.J. Wilson*, Y. Kim*	Plasmon-Driven Near-Field Photopolymerization in a Gold Nanoparticle Colloid	J. Phys. Chem. C 2023, 127, 8096-8103	3.7	1	1		1
53	LEI	B. Lei, Q. Xiong, H. Zhao, W. Dong, V.W.Y. Tam, Z. Sun, and W. Li	Performance of asphalt mortar with recycled concrete powder under different filler-to-asphalt weight ratios	Case Studies in Construction Materials, Vol. 18, July, e01834.	6.2	16	1		1
54	LIU	L. Liu, and W.M. McGinley	Assessment of Thermal Mass on the Energy Consumption of Typical Masonry Buildings	Proceedings of 14th North American Masonry Conference, Omaha, NB, The Masonry Society, June 2023.				1	1
55	LIU	L. Liu, and W.M. McGinley	Evaluation of the Thermal Performance of Active Thermal Mass in Exterior Masonry Walls	Proceedings of 14th North American Masonry Conference, Omaha, NB, The Masonry Society, June 2023.				1	1
56	MAI	B.P. Mainali, D.K. Pattadar, J.N. Sharma, F.P. Zamborini	Electrochemical Analysis of the Thermal Stability of 0.9-4.1 nm Diameter Gold Nanoclusters	Anal. Chem. 2023, 95, 11649-11656	7.4	1	1		1
57	MAL	S Malayil, AN Surendran, K Kate, J Satyavolu	Utilization of residual fatty acids in matter organic non-glycerol from a soy biodiesel plant in filaments used for 3D printing	Journal of Bioresources and Bioproducts, 2023		1		1	1
58	MAR	B. Martin, S. Chapagain, P. Armstrong, C.A. Grapperhaus, M.O. Reese, T. Druffel	IPL-Annealed Mixed-Cation Perovskites with Robust Coating Window toward Scalable Manufacturing of Commercial Perovskite Solar Cells	ACS Appl. Energy Mater. 2023, 6, 5207-5216 (10.1021/acs.aem.3c00134)	6.4	3		1	1
59	MCG	W.M. McGinley	Chapter 7 Design Philosophy, Chapter 11 Allowable Stress Design, Chapter 20 JHM Box Retail Store Design	Masonry Design Guide 2022, The Masonry Society, Boulder CO, August 2023.				1	1
60	MIS	R Mishra, WB Powers, K Kate	Comparative study of vibration signatures of FDM 3D printers	Progress in Additive Manufacturing 8 (2), 205-209	4.5	3	1		1
61	MOS	M.M. Moshtaghi, M. Keramati, O. Ghasemi-Fare, A. Pourdeilami, M. Ebrahimi	Experimental study on thermomechanical behavior of energy piles in sands with different relative densities	Journal of Cleaner Production, 403, 136867	11.1	3	1		1
62	MUC	B. Mucharla, P.V. Sushko, K.K. Sadasivuni, W. Cao, H. Elsayed-Ali, A.M. Abdullah, A. Adedeji, A. Karoui, J.M. Spurgeon, and B. Kumar	Underlying Substrate Effect on Electrochemical Activity for Hydrogen Evolution Reaction with Low Platinum-Loaded Catalysts	Small Struct., 2023, 2300265. DOI: 10.1002/ssr.202300265	15.9	0		1	1
63	NAJ	J.F. Najafian, O. Ghasemi-Fare, O., Rockaway, T.	Natural convection effect on heat transfer in saturated soils under the influence of confined and unconfined subsurface flow	Applied Thermal Engineering, 237, 121805	6.4	1	1		1
64	NAM	H.N. Nambiar, F.P. Zamborini	Electrophoretic Deposition of Hybrid Calcium Alginate-Gold Nanoparticle Hydrogel Films via Catalyzed Electrooxidation of Hydroquinone	Langmuir 2023, 39, 6495-6504	3.9	2	1		1

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65	NAM	H.N. Nambiar, F.P. Zamborini	Size-dependent Electrochemical Metal Growth Kinetics	J. Phys. Chem. C 2023, 127, 4087-4095	3.7	3	1		1
66	NEP	B Nepal, J Hannah, S Mendes, B Bhatia, D Dutta, D Smith	Enhancing pyroelectric performance with an electrically-controlled thermal switch	Bulletin of the American Physical Society			1		1
67	NGU	H.M. Nguyen, F. Gorky, S. Guthrie, J.M. Crawford, M.A. Carreon, J.B. Jasinski, and M.L. Carreon	Plasma catalytic non-oxidative methane conversion to hydrogen and value-added hydrocarbons on zeolite 13X	Energy Conversion and Management, 286, p.117082 (2023).	10.4	4		1	1
68	NIA	A. A Niaze, R. Sahu, M. K Sunkara, S. Upadhyayula	Model construction and optimization for raising the concentration of industrial bioethanol production by using a data-driven ANN model	Renewable Energy, 216, 119031 (2023).	8.7	3		1	1
69	NIA	A. A Niaze, A. Bhardwaj, M. K Sunkara, S. Upadhyayula	Promotional role of tungstate in the integrated synthesis of C2 and C3 alcohols and understanding the bond functionality for a series of cascade reactions	Biofuels, Bioproducts and Biorefining, 17(5), 1183-1202 (2023).	3.9	0		1	1
70	NKU	F. Nkurunziza, C.A. Phipps, D.T. Hofsonmer, M.C. Mulvehill, C.A. Grapperhaus, and J. M. Spurgeon	Electrochemical CO2 Reduction Catalytic Activity and Materials Characterization of Heterogeneous Zinc Carbonaceous Layers Derived from a Zinc(II) Molecular Catalyst	ACS Appl. Energy Mater., 2023, 6 (20), 10432–10441, DOI: 10.1021/acsaem.3c01455	6.4	1		1	1
71	NOU	Abhinav Noudari1, Shailesh Pathak2, William Mognley1, Gautam Gupta1, Sreedevi Upadhyayula3 and Mahendra Sunkara1	Plasma-Catalytic Methane Pyrolysis for Hydrogen and Valuable Carbons	ECS - The Electrochemical Society, 2023				1	1
72	OFF	I. Offei, A. Guo, Z., C. Qi, and N. Sathitsuksanoh	Preventing ASR-induced deteriorations with hydrophobic aggregates-a feasibility study	Constr. Build. Mater., 394, 132277	7.4	0	1		1
73	PHI	C.A. Phipps, D.H. Hofsonmer, C.D. Zirilli, B.G. Duff, M.S. Mashuta, R.M. Buchanan, C.A. Grapperhaus,	Metal-Ligand Cooperativity Promotes Reversible Capture of Dilute CO2 as a Zn(II)-Methylcarbonate	Inorg. Chem. 2023, 62, 2751-2759 (10.1021.acs.inorgchem.2c03868)	4.6	4	1		1
74	POT	C.S. Potnis, C.A. Grapperhaus, G. Gupta	Investigating BioCaRGOS, a Sol-Gel Matrix for the Stability of Heme Proteins under Enzymatic Degradation and Low pH	ACS Omega 2023, 8, 32053-32059 (10.1021/acsomega.3c04012)	4.1	1	1		1
75	QU	C. Qu, J. L. Rozsa, H-J Jung, A. R. Williams, E. K. Markin, M. P. Running, S. McNamara, K. M. Walsh	Bio-inspired antimicrobial surfaces fabricated by glancing angle deposition	Scientific Reports (2023)	4.6	5	1		1
76	QU	C. Qu, S. McNamara, K. Walsh	Fabrication of Superhydrophobic Surfaces using Glancing Angle Deposition	International Manufacturing Science and Engineering Conference (MSEC 2023), New Brunswick, NJ, Sept 12-16, 2023			1		1
77	QU	C. Qu, S. McNamara, and K. Walsh	Fabrication and Superhydrophobic Surfaces Using Inverted Glancing Angle Deposition (I-GLAD)	Journal of Microand Nano-Manufacturing, Vol. 10, Issue 4 DOI: 10.1115/1.4063209	1	1	1		1
78	QU	C. Qu, S. McNamara, and K. Walsh	Fabrication of Superhydrophobic Surfaces Using Glancing Angle Deposition," in Volume 2: Manufacturing Equipment and Automation; Manufacturing Processes; Manufacturing Systems; Nano/Micro/Meso Manufacturing; Quality and Reliability	American Society of Mechanical Engineers, 2023, pp. V002T08A006			1		1
79	RAT	D. Ratnayake, A. Curry, C. Qu, D. Wei, E. Gerber, K. Walsh	Optimizing the Conductivity of a New Nano-particle Silver Ink for Aerosol Jet Printing and Demonstrating its use as a Strain Gauge	IEEE JFLEX, (2023)	10.6	2	1		1
80	SAD	S. Sadri, A. Paleshi, L. Bai, M. Gentili	A Simulation Study for a Safe Reopening and Operation of the Trager Institute Optimal Aging Clinic During the COVID-19 Pandemic.	INFORMS Journal on Applied Analytics. Published online in Articles in Advance 24 Aug 2023. https://doi.org/10.1287/inte.2022.0032	1.4	1	1		1
81	SAT	E. Akshay Satawara, Gaushiya Shaikh, Sanjeev K. Gupta Antonis N. Andriotis, Madhu Menon and P. N. Gajjar	An ab-initio analysis of the hydrogen storage behaviour of V doped Si2BN nanotube	International Journal of Hydrogen, October 2023, DOI: 10.1016/j.ijhydene.2023.10.166	7.2	0		1	1
82	SAT	Akshay Satawara, Gaushiya Shaikh, Sanjeev K. Gupta, Antonis N. Andriotis, Madhu Menon and P. N. Gajjar	An ab-initio study of hydrogen storage performance of Si2BN nanotubes decorated with group 8B transition metals	April 2023 International Journal of Hydrogen Energy 48 (97), DOI: 10.1016/j.ijhydene.2023.03.238	7.2	2		1	1
83	SHA	S Sharma, JB Jasinski, WM Braje, S Handa	Ultrasml CuI Nanoparticles Stabilized on Surface of HPMC: An Efficient Catalyst for Fast and Organic Solvent-Free Tandem Click Chemistry in Water	ChemSusChem 2023	8.4	2		1	1
84	SUR	AN Surendran, S Malayil, J Satyavolu, K Kate	Influence of Chemical Pretreatment on the Mechanical, Chemical, and Interfacial Properties of 3D-Printed, Rice-Husk-Fiber-Reinforced Composites	Journal of Composites Science 7 (9), 2023, 357	3.3	0		1	1
85	VIT	D. Vithanage, Rajapakse, M., Tasnim, K.J., Abu, U., Weerahennedige, H., Irziqat, M., Yu, M., Sumanasekera, G. and Jasinski, J.B.	Electrochemical Li intercalation in b-AsyP1-y alloys: <i>In-situ</i> Raman spectroscopy study	Journal of Alloys and Compounds, 968, p.171849 (2023).	6.2	2		1	1
86	VIT	D. Vithanage, Abu, U., Musa, M.R.K., Tasnim, K.J., Weerahennedige, H., Irziqat, M., Yu, M., Sumanasekera, G. and Jasinski, J.B.	High-pressure response of vibrational properties of b-AsxP1-x: in situ Raman studies	Nanotechnology, 34(46), p.465704 (2023).	3.5	0		1	1

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87	WAL	S Wally, A Elsayed, I Alkabbany, A Ali, A Farag	Occlusion Aware Student Emotion Recognition based on Facial Action Unit Detection	arXiv preprint arXiv:2307.09465			1		1
88	WIC	K.M.K. Wickramaratne, S.B. Karki, F. Ramezani-pour	Electrocatalytic Properties of Oxygen-Deficient Perovskites Ca ₃ Fe _{3-x} MnxO ₈ (x = 1 – 2) for Hydrogen Evolution Reaction	Inorganic Chemistry, 2023, Accepted for Front Cover	4.6	1	1		1
89	WIC	K.M.K. Wickramaratne, F. Ramezani-pour	Impact of Oxygen-Vacancies on Electrical Conductivity and Electrocatalytic Activity of La _{3-x} CaxFe ₂ GaO _{9-δ} (x = 0, 2; δ = 0, 1)	Solid State Sciences, 2023, 141, 107208	3.5	1	1		1
90	YE	Ye, ZT (Ye, Zhouteng) [1] ; Estebe, C (Estebe, Cody) [2] ; Liu, Y (Liu, Yang) [3] ; Vahab, M (Vahab, Mehdi) [4] ; Huang, ZY (Huang, Zeyu) [5] ; Sussman, M (Sussman, Mark) [2] ; Moradikazerouni, A (Moradikazerouni, Alireza) [3] ; Shoel, K (Shoel, Kourosh) [3] ; Lian, YS (Lian, Yongsheng) [6] ; Ohta, M (Ohta, Mitsuhiro) [7] ;	An Improved Coupled Level Set and Continuous Moment-of-Fluid Method for Simulating Multiphase Flows with Phase Change	Communications on Applied Mathematics and Computation DOI10.1007/s42967-023-00286-6	1.6	0	1		1
91	YOU	M Yousuf, I Alkabbany, A Ali, S Elshazley, A Seow, G Dryden, A Farag	An Automatic Colorectal Polyps Detection Approach for Ct Colonography	2023 IEEE International Conference on Image Processing (ICIP), 2790-2794,		0	1		1

PERSONNEL 2023	ASSOCIATED FACULTY	DEPARTMENT, COLLEGE	41
	Amos, Delaina	Chemical Engineering, JB Speed School of Engineering	1
	Atre, Sundar	Mechanical Engineering, JB Speed School of Engineering	1
	Bai, Lihui	Industrial Engineering, JB Speed School of Engineering	1
	Baldwin, Richard	Chemistry, College of Arts & Sciences	1
	Berfield, Thomas	Mechanical Engineering, JB Speed School of Engineering	1
	Berson, Eric	Chemical Engineering, JB Speed School of Engineering	1
	Bhatia, Bikram	Mechanical Engineering, JB Speed School of Engineering	1
	Buchanan, Robert	Chemistry, College of Arts & Sciences	1
	Elmaghraby, Adel	Computer Science & Engineering, JB Speed School of Engineering	1
	Farag, Aly	Electrical & Computer Engineering, JB Speed School of Engineering	1
	Fu, Xiao-An "Sean"	Chemical Engineering, JB Speed School of Engineering	1
	Ghasemi-Fare, Omid	Civil & Environmental Engineering, JB Speed School of Engineering	1
	Grappnerhaus, Craig	Chemistry, College of Arts & Sciences	1
	Gupta, Gautum	Chemical Engineering, JB Speed School of Engineering	1
	Handa, Sachin	Chemistry, College of Arts & Sciences	1
	Harnett, Cindy	Electrical & Computer Engineering, JB Speed School of Engineering	1
	Himes, Paul	Biology, College of Arts & Sciences	1
	Jayanthi, Chakram	Physics & Astronomy, College of Arts & Sciences	1
	Kate, Kunal	Mechanical Engineering, JB Speed School of Engineering	1
	Lian, Yongsheng	Mechanical Engineering, JB Speed School of Engineering	1
	Liu, Jinjun	Chemistry, College of Arts & Sciences	1
	McIntyre, Michael	Electrical & Computer Engineering, JB Speed School of Engineering	1
	McNamara, Shamus	Electrical & Computer Engineering, JB Speed School of Engineering	1
	Mendes, Sergio	Physics & Astronomy, College of Arts & Sciences	1
	Narayanan, Badri	Mechanical Engineering, JB Speed School of Engineering	1
	Park, Sam	Mechanical Engineering, JB Speed School of Engineering	1
	Prater, Glen	Mechanical Engineering, JB Speed School of Engineering	1
	Ramazanipour, Farshid	Chemistry, College of Arts & Sciences	1
	Rockaway, Thomas	Civil & Environmental Engineering, JB Speed School of Engineering	1
	Running, Mark	Biology, College of Arts & Sciences	1
	Sathitsuksanoah, Noppadon	Chemical Engineering, JB Speed School of Engineering	1
	Schultz, David	Biology, College of Arts & Sciences	1
	Starr, Thomas	Chemical Engineering, JB Speed School of Engineering	1
	Sun, Zhihui	Civil & Environmental Engineering, JB Speed School of Engineering	1
	Walsh, Kevin	Electrical & Computer Engineering, JB Speed School of Engineering	1

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Willing, Gerold	Chemical Engineering, JB Speed School of Engineering	1
Wilson, Andrew	Chemistry, College of Arts & Sciences	1
Yang, Li	Industrial Engineering, JB Speed School of Engineering	1
Yu, Ming	Physics & Astronomy, College of Arts & Sciences	1
Zamborini, Frank	Chemistry, College of Arts & Sciences	1
CENTER STAFF		15
Druffel, Thad	Sr. Research Scientist/Engineer	1
Gautam, Manu	Postdoctoral Associate	1
Hoffsommer, Dillon	Postdoctoral Associate	1
Jasinski, Jacek	Sr. Research Scientist/Engineer	1
Malayil, Sreeshya	Postdoctoral Associate	1
Marsh, Andrew	Assistant Director/Program Officer	1
McGinley, Mark	Theme Leader; Civil & Environmental Engineering, JB Speed School of Engineering	1
Menon, Madhusudan	Research Scientist	1
Pandey, Shruti	Research Associate	1
Salazar, Eunice	Unit Business Manager	1
Satyavolu, Jagannadh	Sr. Research Scientist/Engineer	1
Spurgeon, Joshua	Sr. Research Scientist/Engineer	1
Sumanasekera, Gamini	Theme Leader; Physics & Astronomy, College of Arts & Sciences	1
Sunkara, Mahendra	Director, Chemical Engineering, JB Speed School of Engineering	1
Thapa, Arjun	Research Manager	1
VISITING SCHOLARS		7
Thenissery Veettil, Vaisakh	Masters Intern, INDIA	1
Suresh, Amitha	Masters Intern, INDIA	1
Shaji, Muhammad Shah	Masters Intern, INDIA	1
Sunil, Kevin	Masters Intern, INDIA	1
Chacko, Elsa	Masters Intern, INDIA	1
Thachukuzhiyil, Aiswarya	Masters Intern, INDIA	1
Chilakamarry, Chaitanya Reddy	Research Scholar, MALAYSIA	1