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Conn Center for Renewable Energy Research

Impact Reporting: Publications 2019

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2019		PUBLICATIONS BY YEAR	CONN CENTER STAFF & ASSOCIATED FACULTY	6.856	3228	82	25	107	7.33	2776	5.35	452	
#	INDEX	AUTHORS	TITLE	JOURNAL	IMPACT FACTOR (IF)	CITATIONS (CIT)	ASSOC FAC (AF) PUB	CONN STAFF (CS)-DRIVEN PUB	TOTAL PUBS	IF AF	CIT AF	IF CS	CIT CS
1	AFR	G. Afreen, S. Upadhyayula, and M. Sunkara	TiO ₂ Nanowires as Efficient Heterogeneous Photocatalysts for Waste Water Treatment	International Journal of Chemical and Molecular Engineering, 13 (11), 511-515	4.556	1		1	1				
2	AKH	M. Akhtar, C. Zhang, M. Rajapakse, M. R. K. Musa, Yu, G. Sumanasekera, J. B. Jasinski	Bilayer phosphorene under high pressure: in situ Raman spectroscopy	Physical Chemistry Chemical Physics 21, 7298-7304	3.3	20		1	1				
3	AKR	M. Z. Akram, A.K. Thapa, B. P. Ajayi, V. Atla, J.R. Gong, and M. Sunkara	A new nanowire based lithium hexaoxotungstate anode for lithium ion battery	Nanoscale Advances, 2019, 1, 2727-2731	4.7	5		1	1				
4	ALG	R. S. Alghsham, S. R. Satpathy, S. R. Bodduluri, B. Hegde, V. R. Jala, W. Twal, J. A. Burlison, M. Sunkara, and B. Haribabu	Zinc Oxide Nanowires Exposure Induces a Distinct Inflammatory Response via CCL11-Mediated Eosinophil Recruitment	Frontiers in Immunology, https://doi.org/10.3389/fimmu.2019.02604 , 08 November	7.3	13	1		1				
5	ALQ	Alqatamin, Moath; McIntyre, Michael L.	Nonlinear Backstepping Controller for Single-Phase Grid-Connected Inverters	2019 IEEE 20th Workshop on Control and Modeling for Power Electronics (Compel)		0	1		1				
6	ALR	A. Alruqi, MR Khan Musa, R Zhao, C Zhang, JB Jasinski, M Yu, G. Sumanasekera	Layer-Dependent Hydrazine Adsorption Properties in Few-Layer WS ₂	The Journal of Physical Chemistry C 123 (20), 13167-13173	3.7	8		1	1				
7	ALR	A. Alruqi, R Zhao, J Jasinski, G Sumanasekera	Graphene-WS ₂ heterostructures by a lithography free method: their electrical properties	Nanotechnology 30 (27), 275704	3.5	2		1	1				
8	AND	Ando, Taeko; Fu, Xiao-An	Materials: Silicon and beyond	Sensors and Actuators a-Physical	4.6	21	1		1				
9	ANS	Ansari, Tharique N.; Taussat, Armand; Clark, Adam H.; Nachttegaal, Maarten; Plummer, Scott; Gallou, Fabrice; Handa, Sachin	Insights on Bimetallic Micellar Nanocatalysis for Buchwald-Hartwig Aminations	Acs Catalysis	12.9	61	1		1				
10	ARU	Arutt, Charles N.; Shuvra, Pranoy Deb; Lin, Ji-Tzuoh; Alles, Michael L.; Alphenaar, Bruce W.; Davidson, Jim L.; Walsh, Kevin M.; McNamara, Shamus; Fleetwood, Daniel M.; Schrimpf, Ronald D.	Dopant-Type and Concentration Dependence of Total-Ionizing-Dose Response in Piezoresistive Micromachined Cantilevers	IEEE Transactions on Nuclear Science	1.8	0	1		1				
11	BAH	Bahadur, J., A. H. Ghahremani, B. Martin, S. Pishgar, T. Druffel, M. K. Sunkara and K. Pal	A study on the material characteristics of low temperature cured SnO ₂ films for perovskite solar cells under high humidity.	Journal of Materials Science: Materials in Electronics 30(20): 18452-18461. DOI: 10.1007/s10854-019-02199-8	2.8	9		1	1				
12	BAH	Bahadur, J., A. H. Ghahremani, S. Gupta, T. Druffel, M. K. Sunkara and K. Pal	Enhanced moisture stability of MAPbI ₃ perovskite solar cells through Barium doping.	Solar Energy 190: 396-404. DOI: 10.1016/j.solener.2019.08.033	6.7	34		1	1				
13	BAH	J. Bahadur, A.H. Ghahremani, B. Martin, S. Pishgar, M. Sunkara, K. Pal, T. Druffel	A study on the material characteristics of low temperature cured SnO ₂ films for perovskite solar cells under high humidity	Journal of Materials Science: Materials in Electronics 30(20): 18452-18461. DOI: 10.1007/s10854-019-02199-8	2.8	9		1	1				
14	BAH	J. Bahadur, A.H. Ghahremani, B. Martin, T. Druffel, M.K. Sunkara, and A.K. Paul	Solution processed Mo doped SnO ₂ as an effective ETL in the fabrication of low temperature planar perovskite solar cell under ambient conditions	Organic Electronics, DOI: 10.1016/j.orgel.2019.01.027, 67, 159-167	3.2	59		1	1				
15	BAL	Balla, Vamsi Krishna; Kate, Kunal H.; Satyavolu, Jagannadh; Singh, Paramjot; Tadimeti, Jogi Ganesh Dattatreya	Additive manufacturing of natural fiber reinforced polymer composites: Processing and prospects	Composites Part B-Engineering	13.1	332	1		1				
16	BAT	A. M. Bates, W. F. Paxton, J. M. Spurgeon, S. Park, and M. K. Sunkara	Earth-abundant redox couples using durable boron doped diamond electrodes: Beyond vanadium redox couples	Applied Energy	11.2	4		1	1				
17	BIH	Bihani, Manisha; Bora, Pranjal P.; Nachttegaal, Maarten; Jasinski, Jacek B.; Plummer, Scott; Gallou, Fabrice; Handa, Sachin	Microballs Containing Ni(0)/Pd(0) Nanoparticles for Highly Selective Micellar Catalysis in Water	Acs Catalysis	12.9	46	1		1				
18	BOR	Bora, Pranjal P.; Bihani, Manisha; Plummer, Scott; Gallou, Fabrice; Handa, Sachin	Shielding Effect of Micelle for Highly Effective and Selective Monofluorination of Indoles in Water	ChemSuschem	8.4	47	1		1				
19	BRA	Braje, Wilfried; Gallou, Fabrice; Handa, Sachin; Tang, Wenjun	Sustainable and Affordable Chemistry	Chemcatchem	4.5	3	1		1				
20	CAL	Caleb A. Calvary, Oleksandr Hietsoi, Jacob M. Strain, Mark S. Mashuta, Joshua M. Spurgeon, and Robert M. Buchanan,* Craig A. Grapperhaus	Synthesis, Characterization, and HER Activity of Pendant Diamine Derivatives of NiATSM	Eur. J. Inorg. Chem. 2019, 3782-3790	2.3	12	1		1				

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21	CAN	Canicoba, Noelia Devesa; Zagni, Nicolo; Liu, Fangze; McCuistian, Gary; Fernando, Kasun; Bellezza, Hugo; Traore, Boubacar; Rogel, Regis; Tsai, Hsinhan; Le Brizoual, Laurent; Nie, Wany; Crochet, Jared J.; Tretiak, Sergei; Katan, Claudine; Even, Jacky; Kanatzidis, Mercouri G.; Alphenaar, Bruce W.; Blancon, Jean-Christophe; Alam, Muhammad Ashraf; Mohite, Aditya D.	Halide Perovskite High-k Field Effect Transistors with Dynamically Reconfigurable Ambipolarity	Acs Materials Letters	11.4	28	1		1
22	CHA	Chan, Henry; Cherukara, Mathew J.; Narayanan, Badri; Loeffler, Troy D.; Benmore, Chris; Gray, Stephen K.; Sankaranarayanan, Subramanian K. R. S.	Machine learning coarse grained models for water	Nature Communications	16.6	156	1		1
23	CHA	Chan, Henry; Narayanan, Badri; Cherukara, Mathew J.; Sen, Fatih G.; Sasikumar, Kiran; Gray, Stephen K.; Chan, Maria K. Y.; Sankaranarayanan, Subramanian K. R. S.	Machine Learning Classical Interatomic Potentials for Molecular Dynamics from First-Principles Training Data	Journal of Physical Chemistry C	3.7	84	1		1
24	CHA	Chan, Henry; Sasikumar, Kiran; Srinivasan, Srilok; Cherukara, Mathew; Narayanan, Badri; Sankaranarayanan, Subramanian K. R. S.	Machine learning a bond order potential model to study thermal transport in WSe2 nanostructures	Nanoscale	6.7	24	1		1
25	CHE	Cherati, Davood Yazdani; Ghasemi-Fare, Omid	Analyzing transient heat and moisture transport surrounding a heat source in unsaturated porous media using the Green's function	Geothermics	3.9	21	1		1
26	CRO	Steve P. Cronin, Abdullah Al Mamun, Megan J. Toda, Mark S. Mashuta, Yaroslav Losovyj, Pawel M. Kozlowski, Robert M. Buchanan, and Craig A. Grapperhaus*	Utilizing Charge Effects and Minimizing Intramolecular Proton Rearrangement to Improve the Overpotential of a Thiosemicarbonato Zinc HER Catalyst	Inorg. Chem. 2019, 58, 12986-12997.	4.6	16	1		1
27	DER	Derakhshani, Masoud; Berfield, Thomas A.	Snap-Through and Mechanical Strain Analysis of a MEMS Bistable Vibration Energy Harvester	Shock and Vibration	1.6	13	1		1
28	DER	Derakhshani, Masoud; Berfield, Thomas A.; Murphy, Kevin D.	A component coupling approach to dynamic analysis of a buckled, bistable vibration energy harvester structure	Nonlinear Dynamics	5.6	12	1		1
29	DEW	DeWees, Rachel; Wang, Hui	Synthesis and Properties of NaSICON-type LATP and LAGP Solid Electrolytes	Chemsuschem	8.4	217	1		1
30	DHA	R. Dharmasena, A. Martinez-Garcia, G. Sumanasekera, and M. Sunkara	Lithium Molybdate (Li1.33Mo0.66O2)-Sulfur Battery	Batteries and Supercaps, https://doi.org/10.1002/batt.201900176	5.7	4		1	1
31	DUM	Dumont, Joseph H.; Martinez, Ulises; Artyushkova, Kateryna; Purdy, Geraldine M.; Dattelbaum, Andrew M.; Zelenay, Piotr; Mohite, Aditya; Atanassov, Plamen; Gupta, Gautam	Nitrogen-Doped Graphene Oxide Electrocatalysts for the Oxygen Reduction Reaction	Acs Applied Nano Materials	5.9	67	1		1
32	DUO	Duong, Uyen T.; Gade, Amol B.; Plummer, Scott; Gallou, Fabrice; Handa, Sachin	Reactivity of Carbenes in Aqueous Nanomicelles Containing Palladium Nanoparticles	Acs Catalysis	12.9	33	1		1
33	EBR	Ebrahimi, Milad; Kazemi, Hamidreza; Ehteshami, Majid; Rockaway, Thomas D.	Quality Appraisal of Groundwater in Arid Regions Using Probabilistic and Deterministic Approaches	Environmental & Engineering Geoscience	0.9	0	1		1
34	FAN	Fanah, Selorm Joy; Ramezanipour, Farshid	Enhancing the lithium-ion conductivity in Li2SrTa2-xNbxO7 (x=0-2)	Solid State Sciences	3.5	6	1		1
35	FAN	Fanah, Selorm Joy; Yu, Ming; Ramezanipour, Farshid	Experimental and theoretical investigation of lithium-ion conductivity in Li2LaNbTiO7	Dalton Transactions	4	6	1		1
36	FU	Fu, Chunyan; Lizhao, Junhong; Luo, Zhenghui; Wang, Tao; Grapperhaus, Craig A.; Ding, Xueqin; Kang, Y. James	Active uptake of hydrophilic copper complex Cu(ii)-TETA in primary cultures of neonatal rat cardiomyocytes	Metallomics	3.4	9	1		1
37	GHA	Ghahremani, A. H., B. Martin, K. Ankireddy, and T. Druffel	Rapid processing of perovskite solar cells through pulsed photonic annealing: a review.	Journal of Coatings Technology and Research, 16(6): 1637-1642. doi:10.1007/s11998-019-00217-2	2.3	10		1	1
38	GHA	Ghasemi-Fare, Omid; Basu, Prasenjit	Coupling heat and buoyant fluid flow for thermal performance assessment of geothermal piles	Computers and Geotechnics	5.3	23	1		1
39	GHA	Ghavami, Mohammad; Kebria, Daryoush Yousefi; Javadi, Sadra; Ghasemi-Fare, Omid	Cement-Organobentonite Admixtures for Stabilization/Solidification of PAH-Contaminated Soil: A Laboratory Study	Soil & Sediment Contamination	2	3	1		1
40	GHA	Ghavami, Mohammad; Tamizdoust, Mohammadreza Mir; Ghasemi-Fare, Omid	Determination of allowable bearing capacity of shallow foundation using modified hyperbolic stress-strain model	Journal of Applied Geophysics	2	7	1		1
41	GON	Gong, Haijun; Nadimpalli, Venkata Karthik; Rafi, Khalid; Starr, Thomas; Stucker, Brent	Micro-CT Evaluation of Defects in Ti-6Al-4V Parts Fabricated by Metal Additive Manufacturing	Technologies	3.6	23	1		1

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42	GUL	Gulati, S., Hietsoi, O., Calvary, C.A., Strain, J.M., Pishgar, S., Brun, H.C., Grapperhaus, C.A., Buchanan, R.M., and Spurgeon, J.M.	Photocatalytic hydrogen evolution on Si photocathodes modified with bis(thiosemicarbazonato)nickel(II)/Nafion	ChemComm, 2019, 55, 9440-9443. DOI:10.1039/C9CC04117F	4.9	14		1	1
43	GUO	A. Guo, Sun, Z., and Satyavolu, J.	Impact of chemical treatment on the physiochemical and mechanical properties of kenaf fibers	Industrial Crops and Products. September, 2019.	5.9	61		1	1
44	GUO	Guo, A. F.; Aamiri, O. B.; Satyavolu, J.; Sun, Z. H.	Impact of thermally modified wood on mechanical properties of mortar	Construction and Building Materials	7.4	13	1		1
45	GUO	Guo, Yisen; Lian, Yongsheng	Calculation of Water Collection Efficiency Using a Multiphase Flow Solver	Journal of Aircraft	2.2	2	1		1
46	GUP	Gupta, A., K. Anireddy, B. Kumar, A. Alruqi, J. Jasinski, G. Gupta and T. Druffel	Intense pulsed light, a promising technique to develop molybdenum sulfide catalysts for hydrogen evolution.	Nanotechnology 30(17): 175401. DOI: 10.1088/1361-6528/aaffac	3.5	5		1	1
47	GUP	Gupta, A., Vishnosky, N., Hietsoi, O., Losovjy, Y., Strain, J., Spurgeon, J., Mashuta, M., Jain, R., Buchanan, R.M., Gupta, G., and Grapperhaus, C.A.	Effect of Stacking Interactions on the Translation of Structurally Related Bis(thiosemicarbazonato)nickel(II) HER Catalysts to Modified Electrode Surfaces	Inorganic Chem., 2019, 58, 12025-12039. DOI:10.1021/acs.inorgchem.9b01209	4.6	8	1		1
48	HAN	Handa, Sachin	Chemistry in water for highly selective reaction pathways	Abstracts of Papers of the American Chemical Society	14.612	0	1		1
49	HAN	Handa, Sachin; Jin, Bo; Bora, Pranjal P.; Wang, Ye; Zhang, Xiaohua; Gallou, Fabrice; Reilly, John; Lipschutz, Bruce H.	Sonogashira Couplings Catalyzed by Fe Nanoparticles Containing ppm Levels of Reusable Pd, under Mild Aqueous Micellar Conditions	Acs Catalysis	12.9	78	1		1
50	HER	ZD Herde, R Dharmasena, G Sumanasekera, JS Tumuluru, J Satyavolu	Impact of hydrolysis on surface area and energy storage applications of activated carbons produced from corn fiber and soy hulls	Carbon Resources Conversion 3, 19-28	6	28		1	1
51	HON	Hona, Ram Krishna; Huq, Ashfia; Ramezanipour, Farshid	Charge transport properties of Ca ₂ FeGaO ₆ -delta and CaSrFeGaO ₆ -delta: The effect of defect-order	Materials Chemistry and Physics	4.6	3	1		1
52	HON	Hona, Ram Krishna; Huq, Ashfia; Ramezanipour, Farshid	Electrical properties of the ordered oxygen-deficient perovskite Ca ₂ Fe _{0.5} Ga _{1.5} O ₅	Ionics	2.8	5	1		1
53	HON	Hona, Ram Krishna; Ramezanipour, Farshid	Enhanced electrical properties in BaSrFe ₂ O ₆ -delta (delta=0.5): A disordered defect-perovskite	Polyhedron	2.6	7	1		1
54	HON	Hona, Ram Krishna; Ramezanipour, Farshid	Remarkable Oxygen-Evolution Activity of a Perovskite Oxide from the Ca _{2-x} Sr _x Fe ₂ O ₆ - Series	Angewandte Chemie-International Edition	16.6	54	1		1
55	HON	Hona, Ram Krishna; Ramezanipour, Farshid	Structure-dependence of electrical conductivity and electrocatalytic properties of Sr ₂ Mn ₂ O ₆ and CaSrMn ₂ O ₆	Journal of Chemical Sciences	1.7	8	1		1
56	HOS	Hossain, Md Anwar; Thanh Khoa, Phung; Rahaman, Mohammad Shahinur; Tulaphol, Saritrawut; Jasinski, Jacek B.; Sathitsuksanoh, Noppadon	Catalytic cleavage of the beta-O-4 aryl ether bonds of lignin model compounds by Ru/C catalyst	Applied Catalysis a-General	5.5	56	1		1
57	ISL	Islam, Mohammad S.; Harnett, Cindy K.	Miniaturized systems for evaluating enzyme activity in polymeric membrane bioreactors	Engineering in Life Sciences	2.7	5	1		1
58	JAR	D. Jaramillo, J. Jasinski and M. Sunkara	Liquid Phase Epitaxy of Gallium Nitride	Crystal Growth and Design, 19, 11, 6577-6585	3.8	2		1	1
59	JAR	D.F. Jaramillo, B.P. Ajayi, P. Meduri, and M.K. Sunkara	One-dimensional nanomaterials in lithium-ion batteries	Journal of Physics D: Applied Physics, Volume 54, Issue 8, id.083001, 40 pp.	3.4	13		1	1
60	KHM	Khmaissia, Fadoua; Frigui, Hichem; Andriotis, Antonis N.; Menon, Madhu	Data driven modeling of magnetism in dilute magnetic semiconductors: correlation between the magnetic features of diluted magnetic semiconductors and electronic properties of the constituent atoms	Journal of Physics-Condensed Matter	2.7	7		1	1
61	KON	Koncz, Benedek; Bazso, Gabor; Reza, Md Asmaul; Telfah, Hamzeh; Hegedus, Kristof; Liu, Jinjun; Tarczay, Gyorgy	Revealing Long-Range Substituent Effects in the Laser-Induced Fluorescence and Dispersed Fluorescence Spectra of Jet-Cooled CH ₃ F ₃ -xCH ₂ O (x=1, 2, 3) Radicals	Journal of Physical Chemistry A	2.9	3	1		1
62	LER	A. Leroy, B. Bhatia, C.C. Kelsall, A. Castillejo-Cuberos, M. Di Capua H., L. Zhao, L. Zhang, A.M. Guzman, and E.N. Wang,	High Performance Subambient Radiative Cooling Enabled by Optically Selective and Thermally Insulating Polyethylene Aerogel	Science Advances 5, eaat9480, 2019. [Featured in multiple Media Outlets]	13.6	320	1		1

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63	LIU	Liu, Xiaoming; Chen, Yan; Hood, Zachary D.; Ma, Cheng; Yu, Seungho; Sharafi, Asma; Wang, Hui; An, Ke; Sakamoto, Jeff; Siegel, Donald J.; Cheng, Yongqiang; Jalarvo, Niina H.; Chi, Miaofang	Elucidating the mobility of H ⁺ and Li ⁺ ions in (Li ₆ -25-xHxAl _{0.25})La ₃ Zr ₂ O ₁₂ via correlative neutron and electron spectroscopy	Energy & Environmental Science	39.714	60	1		1
64	LU	Lu, Z. H.; Li, H.; Li, W. G.; Zhao, Y. G.; Tang, Z.; Sun, Z. H.	Shear behavior degradation and failure pattern of reinforced concrete beam with chloride-induced stirrup corrosion	Advances in Structural Engineering	2.6	19	1		1
65	MOR	Moradi, Marzieh; He, Qingwen; Willing, Gerold A.	Tuning the stabilization mechanism of nanoparticle-regulated complex fluids	Colloids and Surfaces a-Physicochemical and Engineering Aspects	5.2	2	1		1
66	MOR	Moradi, Marzieh; Woods, Bailey M.; Rathnayake, Hemali; Williams, Stuart J.; Willing, Gerold A.	Effect of functionalization on the properties of silsesquioxane: a comparison to silica	Colloid and Polymer Science	2.4	5	1		1
67	NAR	Narayanan, Badri; Assary, Rajeev; Pang, Quanquan; Shyamsunder, Abhinandan; Shin, Minjeong; Watkins, Tylan; Wu, Heng-Liang; Gewirth, Andrew; Zavadil, Kevin; Nazar, Linda; Curtiss, Larry	Effect of salt and co-solvents on electrolyte structure in Li-S batteries: A first-principles study	Abstracts of Papers of the American Chemical Society	14.612	0	1		1
68	NAR	Narayanan, Badri; Redfern, Paul C.; Assary, Rajeev S.; Curtiss, Larry A.	Accurate quantum chemical energies for 133 000 organic molecules	Chemical Science	8.4	61	1		1
69	PAR	Parsons, M. Adrienne; Sharp, M. Keith	The Cooling Potential of Sky Radiation With Variations in System Parameters	Journal of Solar Energy Engineering-Transactions of the Asme	2.3	0	1		1
70	PAT	Patil, Kaustubh; Rashidi, Soheil; Wang, Hui; Wei, Wei	Recent Progress of Graphene-Based Photoelectrode Materials for Dye-Sensitized Solar Cells	International Journal of Photoenergy	3.2	35	1		1
71	PAT	Patra, Tarak K.; Chan, Henry; Podsiadlo, Paul; Shevchenko, Elena V.; Sankaranarayanan, Subramanian K. R. S.; Narayanan, Badri	Ligand dynamics control structure, elasticity, and high-pressure behavior of nanoparticle superlattices	Nanoscale	6.7	20	1		1
72	PAT	Patra, Tarak K.; Loeffler, Troy D.; Chan, Henry; Cherukara, Mathew J.; Narayanan, Badri; Sankaranarayanan, Subramanian K. R. S.	A coarse-grained deep neural network model for liquid water	Applied Physics Letters	4	12	1		1
73	PAT	Pattadar, Dhruva K.; Sharma, Jay N.; Mainali, Badri P.; Zamborini, Francis P.	Anodic stripping electrochemical analysis of metal nanoparticles	Current Opinion in Electrochemistry	8.5	31	1		1
74	PAU	Paul, Anam C.; Sharma, Ketan; Reza, Md Asmaul; Telfah, Hamzeh; Miller, Terry A.; Liu, Jinjun	Laser-induced fluorescence and dispersed-fluorescence spectroscopy of the A ₂ E-X & x303;2A1 transition of jet-cooled calcium methoxide (CaOCH ₃) radicals	Journal of Chemical Physics	4.4	19	1		1
75	PIS	Pishgar, Sahar; Strain, Jacob M.; Gulati, Saumya; Sumanasekera, Gamin; Gupta, Gautam; Spurgeon, Joshua M.	Investigation of the photocorrosion of n-GaP photoanodes in acid with in situ UV-Vis spectroscopy	Journal of Materials Chemistry A	11.9	16		1	1
76	QAT	Qatamin, Aymen H.; Ghithan, Jafar H.; Moreno, Monica; Nunn, Betty M.; Jones, Keenan B.; Zamborini, Francis P.; Keynton, Robert S.; O'Toole, Martin G.; Mendes, Sergio B.	Detection of influenza virus by electrochemical surface plasmon resonance under potential modulation	Applied Optics	1.9	17	1		1
77	RAM	Ramezani, M.; Kim, Y. H.; Sun, Z. H.	Modeling the mechanical properties of cementitious materials containing CNTs	Cement & Concrete Composites	10.5	71	1		1
78	RAM	Ramezanipour, Farshid; Fanah, Selorm; Yu, Ming; Huq, Ashfia	Designing solid electrolytes for lithium-ion batteries: Experimental and computational studies	Abstracts of Papers of the American Chemical Society	14.612	0	1		1
79	RAM	Ramezanipour, Farshid; Hona, Ram; Huq, Ashfia	Design and synthesis of defect-ordered perovskites: Controlling the electrical properties through modification of defect-arrangement for fuel-cell applications	Abstracts of Papers of the American Chemical Society	14.612	0	1		1
80	RAM	Ramezanipour, Farshid; Hona, Ram; Huq, Ashfia	Tuning the magnetic properties by manipulation of the oxygen-vacancies in oxygen-deficient perovskites	Abstracts of Papers of the American Chemical Society	14.612	0	1		1
81	REZ	Reza, Asmaul; Paul, Anam C.; Reilly, Neil J.; Liu, Jinjun	Laser-Induced Fluorescence and Dispersed Fluorescence Spectroscopy of Jet-Cooled Isopentoxy Radicals	Journal of Physical Chemistry A	2.9	5	1		1
82	REZ	Reza, Md Asmaul; Telfah, Hamzeh; Xu, Raobo; Liu, Jinjun	Room-Temperature Cavity Ring-Down Spectroscopy of Methylallyl Peroxy Radicals	Journal of Physical Chemistry A	2.9	5	1		1
83	RUD	G. A. Rudakov, K. B. Tsiberkin, R. S. Ponomarev, V. K. Henner, D. A. Ziolkowska, J. B. Jasinski, G. Sumanasekera	Magnetic properties of transition metal nanoparticles enclosed in carbon nanocages	Journal of Magnetism and Magnetic Materials, 462, 34-39 (2019).	2.7	18		1	1
84	SAM	Samsudeen, N., Spurgeon, J., Matheswaran, M., and Satyavolu, J	Simultaneous biohydrogen production with distillery wastewater treatment using modified microbial electrolysis cell	Int. J. Hydrogen Energy, 2019, Advance Article. DOI:10.1016/j.ijhydene.2019.06.134.	7.2	28		1	1

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85	SAR	Saraei, N.; Hietsoi, O.; Frye, B. C.; Gupta, A. J.; Mashuta, M. S.; Gupta, G.; Buchanan, R. M.; Grapperhaus, C. A., .	Water wire clusters in isostructural Cu(II) and Ni(II) complexes: Synthesis, characterization, and thermal analyses	Inorg. Chim. Acta, 2019, 492, 268–274.	2.8	2	1		1
86	SAS	Sasikumar, Kiran; Chan, Henry; Narayanan, Badri; Sankaranarayanan, Subramanian K. R. S.	Machine Learning Applied to a Variable Charge Atomistic Model for Cu/Hf Binary Alloy Oxide Heterostructures	Chemistry of Materials	8.6	16	1		1
87	SAT	Sathitsuksanoh, Noppadon; Tulaphol, Saritrawat; Grisdanurak, Nurak; Liu, Li-Yang; Rennecker, Scott; Prasomsri, Teerawit	One-pot acid-catalyzed 5-hydroxymethylfurfural production from industrial hemp: from controversies to commodity chemicals	Abstracts of Papers of the American Chemical Society	14.612	0	1		1
88	SHA	Shang, H.; Sun, Z. H.	PAHs (naphthalene) removal from stormwater runoff by organoclay amended pervious concrete	Construction and Building Materials	7.4	24	1		1
89	SHU	Shuvra, Pranoy Deb; Arutt, Charles N.; Lin, Ji-Tzuoh; Davidson, Jim; Alles, Michael; Walsh, Kevin; Alphenaar, Bruce; McNamara, Shamus	Dimensional dependence of the radiation damage in microelectromechanical system resonators	Journal of Physics D-Applied Physics	3.4	1	1		1
90	SMI	Smith, Justin D.; Jamhawi, Abdelqader M.; Jasinski, Jacek B.; Gallou, Fabrice; Ge, Jin; Advincula, Rigoberto; Liu, Jinjun; Handa, Sachin	Organopolymer with dual chromophores and fast charge-transfer properties for sustainable photocatalysis	Nature Communications	16.6	27	1		1
91	SON	Son, Byungrak; Oh, Kwangjin; Park, Sam; Lee, Tae-Gwan; Lee, Dong Ha; Kwon, Osung	Study of morphological characteristics on hydrophilicity-enhanced SiO ₂ /Nafion composite membranes by using multimode atomic force microscopy	International Journal of Energy Research	4.6	14	1		1
92	SOS	AV Sosunov, DA Ziolkowska, RS Ponomarev, VK Henner, B Karki, G. Sumanasekera, J. Jasinski	CFx primary batteries based on fluorinated carbon nanocages	New Journal of Chemistry 43 (33), 12892-12895	3.3	19		1	1
93	SPR	Springer, Zachary; Sharp, M. Keith	The Potential of Sky Radiation for Humidity Control	Journal of Solar Energy Engineering-Transactions of the Asme	2.3	1	1		1
94	STR	E. Strobach, B. Bhatia, L. Zhao, and E.N. Wang	Thermal Performance of High-Efficiency Window Technologies	Annual Review of Heat Transfer 21, 59-97, 2019.	0.471	5	1		1
95	STR	E. Strobach, B. Bhatia, S. Yang, L. Zhao, and E.N. Wang	High Temperature Stability of Transparent Silica Aerogels for Solar Thermal Applications	APL Materials 7, 081104, 2019.	6.1	31	1		1
96	SU	Su, Dianqiang; Gong, Ting; Ji, Zhonghua; Zhao, Yanting; Xiao, Liantuan; Jia, Suotang; Li, Chuanliang; Liu, Jinjun	Extensive high-resolution photoassociation spectra and perturbation analysis of the 2(0- ∞) long-range state of ultracold RbCs molecules	Physical Review A	2.9	2	1		1
97	TAK	Takale, Balaram S.; Thakore, Ruchita R.; Handa, Sachin; Gallou, Fabrice; Reilly, John; Lipshutz, Bruce H.	A new, substituted palladacycle for ppm level Pd-catalyzed Suzuki-Miyaura cross couplings in water	Chemical Science	8.4	65	1		1
98	WAN	Wang, Hui; Ziolkowska, Dominika; Arnold, William; Druffel, Thad; Sunkara, Mahendra	Halide doping effect on lithium argyrodites from liquid-base synthesis	Abstracts of Papers of the American Chemical Society	14.612	0		1	1
99	WAR	Ward, Logan; Blaiszik, Ben; Foster, Ian; Assary, Rajeev S.; Narayanan, Badri; Curtiss, Larry	Machine learning prediction of accurate atomization energies of organic molecules from low-fidelity quantum chemical calculations	Mrs Communications	1.9	36	1		1
100	ZHA	L. Zhang, Z. Lu, Y. Song, L. Zhao, B. Bhatia, K.R. Bagnall, and E.N. Wang	Measuring Thermal Expansion Coefficient of Monolayer Molybdenum Disulfide Using Micro-Raman Spectroscopy,	Nano Letters 19, 4745-4751, 2019.	10.8	86	1		1
101	ZHA	L. Zhao, B. Bhatia, S. Yang, E. Strobach, L.A. Weinstein, T.A. Cooper, G. Chen, and E.N. Wang	Harnessing Heat beyond 200 °C from Unconcentrated Sunlight with Non-Evacuated Transparent Aerogels	ACS Nano 13, 7508-7516, 2019. [Featured in multiple Media Outlets]	17.1	97	1		1
102	ZHA	L. Zhao, E. Strobach, B. Bhatia, S. Yang, A. Leroy, L. Zhang, and E.N. Wang	Theoretical and Experimental Investigation of Haze in Transparent Aerogels	Optics Express 27(4), A39-A50, 2019.	3.8	27	1		1
103	ZHA	L. Zhao, L. Zhang, B. Bhatia, and E.N. Wang	Understanding Anti-Parity-Time Symmetric Systems with a Conventional Heat Transfer Framework – Comment on "Anti-Parity-Time Symmetry in Diffusive Systems"	arXiv: 1906.08431, 2019.		3	1		1
104	ZHA	L. Zhao, M. Blackman, L. Zhang, B. Bhatia, A. Leroy, E. Strobach, and E.N. Wang	Plasmonic Absorption Induced Haze Suppression in Random Scattering Media	Applied Physics Letters 114, 251102, 2019.	4	1	1		1
105	ZHA	Zhang, Jing; Wu, Jingjie; Zou, Xiaolong; Hackenberg, Ken; Zhou, Wu; Chen, Weibing; Yuan, Jiangtan; Keyshar, Kuntal; Gupta, Gautam; Mohite, Aditya; Ajayan, Pulickel M.; Lou, Jun	Discovering superior basal plane active two-dimensional catalysts for hydrogen evolution	Materials Today	26.416	67	1		1
106	ZHA	Zhang, Lenan; Lu, Zhengmao; Song, Youngsup; Zhao, Lin; Bhatia, Bikram; Bagnall, Kevin R.; Wang, Evelyn N.	Thermal Expansion Coefficient of Monolayer Molybdenum Disulfide Using Micro-Raman Spectroscopy	Nano Letters	11.238	64	1		1
107	ZIO	Ziolkowska, D. A., W. Arnold, T. Druffel, M. Sunkara and H. Wang	Rapid and Economic Synthesis of a Li7PS6 Solid Electrolyte from a Liquid Approach.	ACS Applied Materials & Interfaces 11(6): 6015-6021. DOI: 10.1021/acami.8b19181	9.5	76		1	1

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PERSONNEL 2019	ASSOCIATED FACULTY	DEPARTMENT, COLLEGE	52
Alexander, Suraj		Industrial Engineering, JB Speed School of Engineering	1
Alphenaar, Bruce		Electrical & Computer Engineering, JB Speed School of Engineering	1
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
Bhatta, 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
Emery, Sarah		Biology, College of Arts & Sciences	1
Farag, Aly		Electrical & Computer Engineering, JB Speed School of Engineering	1
French, Mark		Civil & Environmental Engineering, JB Speed School of Engineering	1
Frigul, Hichem		Computer Science & 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
Grappethaus, Craig		Chemistry, College of Arts & Sciences	1
Gupta, Gautum		Chemical Engineering, JB Speed School of Engineering	1
Hammond, Gerald GB		Chemistry, College of Arts & Sciences	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
Hsu, Keng		Mechanical Engineering, JB Speed School of Engineering	1
Jayanthi, Chakram		Physics & Astronomy, College of Arts & Sciences	1
Kate, Kunai		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
McGinley, Mark		Civil & Environmental Engineering, JB Speed School of Engineering	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
Naber, John		Electrical & Computer Engineering, JB Speed School of Engineering	1
Narayanan, Badri		Mechanical Engineering, JB Speed School of Engineering	1
Nasraoui, Oifa		Computer Science & 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
Sharp, Keith		Mechanical Engineering, JB Speed School of Engineering	1
Starr, Thomas		Chemical Engineering, JB Speed School of Engineering	1
Sun, Zhihui		Civil & Environmental Engineering, JB Speed School of Engineering	1
Tseng, Michael		Anatomical Sciences & Neurobiology, School of Medicine	1
Walsh, Kevin		Electrical & Computer Engineering, JB Speed School of Engineering	1

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Wang, Hui	Mechanical Engineering, JB Speed School of Engineering	1
Willing, Gerold	Chemical Engineering, JB Speed School of Engineering	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		16
Bu Aamiri, Osama	Postdoctoral Associate	1
Akmadi, Masoudeh	Postdoctoral Associate	1
Balla, Vamsi Krishna	Postdoctoral Associate	1
Druffel, Thad	Sr. Research Scientist/Engineer	1
Jasinski, Jacek	Sr. Research Scientist/Engineer	1
Marsh, Andrew	Assistant Director/Program Officer	1
Menon, Madhusudan	Research Scientist	1
Paxton, William "Hank"	Research Scientist/Engineer	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
Tadimeti, Jogi Ganesh	Postdoctoral Associate	1
Thapa, Arjun	Postdoctoral Associate	1
Thilakaratne, Chamila Rajeeva	Postdoctoral Associate	1

VISITING SCHOLARS		1
Ortiz, Pablo	Research Scholar, COLUMBIA	1