Conn Center for Renewable Energy Research
Impact Report 2010 - 2020
PUBLICATIONS BY YEAR: 2018
CONN CENTER STAFF and ASSOCIATED FACULTY

		PUBLICATIONS BY YEAR	CONN CENTER STAFF & ASSOCIATED FACULTY	2018	5.752	1445		56	22	3	8	83
#	CODE	AUTHORS	TITLE	JOURNAL	IMPACT FACTOR	CITATIONS - 1/2022	YEAR	ASSOC FAC PUB	CONN STAFF-DRIVEN PUB	CENTER FACULTY COLLAB	FACULTY W/ CENTER CONTRIB	TOTAL PUBS
1	AHM	Ahmadi, M ; Willing, G	Heat transfer measurment in water based nanofluids	INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER	4.346	27	2018	1				1
2	AKR	M. Z. Akram, V. Atla, A. Nambo, B.P. Ajayi, J.B. Jasinski, J. He, J./R. Gong, M.K. Sunkara	Low-Temperature and Fast Kinetics for CO2 Sorption Using Li6WO6Nanowires	Nano Lett., 2018, 18 (8), pp 4891–4899, DOI: 10.1021/acs.nanolett.8b01529	12.279	14	2018		1			1
3	ALA	A. Alam, A. Ojo, J. Jasinski, I. Dharmadasa	Magnesium Incorporation in n-CdTe to produce wide bandgap p-type CdTe: Mg window layers	ChemEngineering 2, 59	8.355	5	2018				1	1
4	ALQ	Alqatamin, Moath; McIntyre, Michael L.	Nonlinear Adaptive Control for Power System with Static VAR Compensator	Conference Record of the Third Ieee International Workshop on Electronic Power Grid (Egrid)	0.89	1	2018	1				1
5	ANK	Ankireddy, K ; Ghahremani, AH ; Martin, B ; Gupta, G ; Druffel, T	Rapid thermal annealing of CH3NH3PbI3 perovskite thin films by intense pulsed light with aid of diiodomethane additive	JOURNAL OF MATERIALS CHEMISTRY A 6(20): 9378-9383. DOI: 10.1039/c8ta01237g	10.733	32	2018		1	1		1
6	ANK	Ankireddy, K ; Lavery, BW ; Druffel, T	Atmospheric Processing of Perovskite Solar Cells Using Intense Pulsed Light Sintering	JOURNAL OF ELECTRONIC MATERIALS	1.676	13	2018		1			1
7	ARD	S. Ardo, D. Fernandez Rivas, M. Modestino, V. Schulze Greiving, F. Abdi, E. Alarcon Ilado, V. Artero, K. Ayers, C. Battaglia, J. Becker, D. Bederak, A. Berger, F. Buda, E. Chinello, B. Dam, V. Di Palma, T. Edvinsson, K. Fujii, H. Gardeniers, H. Geerlings, M. Hashemi, S. Haussener, F. Houle, J. Huskens, B. James, K. Konrad, A. Kudo, P. Patil Kunturu, D. Lohse, B. Mei, E. Miller, G. Moore, J. Muller, K. Orchard, T. Rosser, F. Saadi, J. Schüttauf, B. Seger, S. Sheehan, W. Smith, J. Spurgeon, M. Tang, R. van de Krol, P. Vesborg, P. Westerik	Pathways to Electrochemical Solar Hydrogen Technologies	Energy Environ. Sci., 2018, 11, 2768-2783. DOI: 10.1039/C7EE03639F.	33.25	13	2018				1	1
8	ARU	Arutt, CN ; Liao, WJ ; Gong, HQ ; Shuvra, PD ; Lin, JT ; Alles, ML ; Alphenaar, BW ; Davidson, JL ; Walsh, KM ; McNamara, S ; Zhang, EX ; Sternberg, AL ; Fleetwood, DM ; Reed, RA ; Schrimpf, RD	Dose-Rate Effects on the Total-Ionizing Dose Response of Piezoresistive Micromachined Cantilevers	IEEE TRANSACTIONS ON NUCLEAR SCIENCE	1.428	7	2018	1				1
9	AYT	T. Aytug, M. S. Rager, W. Higgins, F.G. Brown, G. M. Veith, C. M. Rouleau, H. Wang, Z. Hood, S. M. Mahurin, R.T. Mayes, P.C. Joshi, G.C. Hanthorn, T. Kuruganti	Vacuum-Assisted Low-temperature Synthesis of Reduced Graphene Oxide Thin Film Electrodes: Facile Fabrication Route to Transparent and Flexible All-Solid-State Supercapacitors	ACS Applied Materials & Interfaces, 2018, 10, 11008-11017	8.456	43	2018	1				1
10	BIH	Bihani, Manisha; Ansari, Tharique N.; Smith, Justin D.; Handa, Sachin	The magical but endangered metal: searching for sustainable palladium catalysis	Current Opinion in Green and Sustainable Chemistry	1.032	12	2018	1				1
11	CAR	Carreon, ML ; Jaramillo-Cabanzo, DF ; Chaudhuri, I ; Menon, M ; Sunkara, MK	Synergistic interactions of H-2 and N-2 with molten gallium in the presence of plasma	JOURNAL OF VACUUM SCIENCE & TECHNOLOGY A	1.257	13	2018		1			1
12	CHE	Chen, Yan; Lian, Yongsheng	Numerical investigation of coalescence-induced self-propelled behavior of droplets on non-wetting surfaces	Physics of Fluids	2.834	25	2018	1				1
13	DHA	Dharmasena, R ; Thapa, AK ; Hona, RK ; Jasinski, J ; Sunkara, MK ; Sumanasekera, GU	Mesoporous TiO2 coating on carbon-sulfur cathode for high capacity Li-sulfur battery	RSC ADVANCES	3.049	19	2018		1			1
14	DOE	Doerger, Stanley R.; Harnett, Cindy K.	Force-Amplified Soft Electromagnetic Actuators	Actuators	3.52	4	2018	1				1
15	DRU	Druffel, T ; Dharmadasa, R ; Lavery, BW ; Ankireddy, K	Intense pulsed light processing for photovoltaic manufacturing	SOLAR ENERGY MATERIALS AND SOLAR CELLS	6.019	43	2018		1			1
16	EBR	Ebrahimi, M ; Kazemi, H ; Mirbagheri, SA ; Rockaway, TD	Integrated Approach to Treatment of High-Strength Organic Wastewater by Using Anaerobic Rotating Biological Contactor	JOURNAL OF ENVIRONMENTAL ENGINEERING	1.657	9	2018	1				1
17	FAG	Faghih, Mohammad M.; Sharp, M. Keith	Characterization of erythrocyte membrane tension for hemolysis prediction in complex flows	Biomechanics and Modeling in Mechanobiology	2.984	13	2018	1				1
18	FAN	Fanah, S. J.; Yu, M.; Huq, A.; Ramezanipour, F.	Insight into Lithium-Ion Mobility in Li2La(TaTi)O7	J. Mater. Chem. A 2018, DOI: 10.1039/C8TA05187A (Invited article)	10.733	9	2018	1				1

19	FIN	Finck, Lucie; Brats, Jeremy; Pavuluri, Bhavana; Gallou, Fabrice; Handa, Sachin	Micelle-Enabled Photoassisted Selective Oxyhalogenation of Alkynes in Water under Mild Conditions	Journal of Organic Chemistry	4.745	37	2018	1				1
20	GHA	Ghasemi-Fare, Omid; Basu, Prasenjit	Influences of ground saturation and thermal boundary condition on energy harvesting using geothermal piles	Energy and Buildings	4.495	37	2018	1				1
21	GRA	Graham, UM ; Yokel, RA ; Dozier, AK ; Drummy, L ; Mahalingam, K ; Tseng, MT ; Birch, E ; Fernback, J	Analytical High-resolution Electron Microscopy Reveals Organ-specific Nanoceria Bioprocessing	TOXICOLOGIC PATHOLOGY	1.382	14	2018	1				1
22	GUA	Guan, YL ; Liu, L ; Wang, Q ; Zhao, JJ ; Li, P ; Hu, JY ; Yang, ZF ; Running, MP ; Sun, H ; Huang, JL	Gene refashioning through innovative shifting of reading frames in mosses	NATURE COMMUNICATIONS	11.878	14	2018	1				1
23	GUI	Guizhi Sun, Sam Park, and Zhongling Lin	Modeling and Simulation of a PEM Fuel Cell/Battery Hybrid Vehicle	Journal of System Simulation	0.26	0	2018	1				1
24	GUL	Gullapalli, Venkata; French, Mark N.	Water Treatment Using Renewable Energy Technologies-A Pilot Plant Study	World Environmental and Water Resources Congress 2018: Groundwater, Sustainability, and Hydro-Climate/Climate Change	0.24	0	2018	1				1
25	GUO	Guo, Yisen; Lian, Yongsheng	Numerical investigation of oblique impact of multiple drops on thin liquid film	Journal of Colloid and Interface Science	6.361	9	2018	1				1
26	GUP	S Gupta, SB Carrizosa, J Jasinski, N Dimakis,	Charge transfer dynamical processes at graphene-transition metal oxides/electrolyte interface for energy storage: Insights from in-situ Raman spectroelectrochemistry	AIP Advances, 8, 065225	1.579	16	2018		1			1
27	HAN	Handa, S ; Smith, JD ; Zhang, YT ; Takale, BS ; Gallou, F ; Lipshute, BH	Sustainable HandaPhos-ppm Palladium Technology for Copper-Free Sonogashira Couplings in Water under Mild Conditions	ORGANIC LETTERS	6.555	52	2018	1				1
28	HAN	Handa, Sachin; Bihani, Manisha; Ibrahim, Faisal; Smith, Justin	Non-traditional approach to chemical catalysis to achieve selective reaction pathways	Abstracts of Papers of the American Chemical Society	14.696	0	2018	1				1
29	HAN	Handa, Sachin; Ibrahim, Faisal; Ansari, Tharique N.; Gallou, Fabrice	pi-Allylpalladium Species in Micelles of FI-750-M for Sustainable and General Suzuki-Miyaura Couplings of Unactivated Quinoline Systems in Water	Chemcatchem	4.495	24	2018	1				1
30	HER	Z.D. Herde, R. Dharmasena, G Draper, G. Sumanasekera, and J. Satyavolu	Production of high surface area activated carbons for energy storage applications using agricultural biomass residue from a C5-biorefinery	AIP Conference Proceedings Volume 1992, Issue 1, 2018 https://doi.org/10.1063/1.5047951	0.415	0	2018		1			1
31	HON	Hona, R. K.; Huq, A.; Ramezanipour, F.	Magnetic Structure of CaSrFeCoO6–δ: Correlations with Structural Order	Mater. Res. Bull. 2018, 106 ,131-136	3.355	12	2018	1				1
32	HON	Hona, R. K.; Ramezanipour, F.	Disparity in Electrical and Magnetic Properties of Isostructural Oxygen-Deficient Perovskites BaSrCo2O6-δ and BaSrCoFeO6-δ	J. Mater. Sci.: Mater. Electron.2018, 29, 13464-13473	2.195	12	2018	1				1
33	HON	Hona, R. K.; Ramezanipour, F.	Variation in Electrical Conductivity of A2Fe2O5 (A=Sr, Ba): The Role of Structural Order	Mater. Res. Express 2018, 5, 076307	1.442	12	2018	1				1
34	HOO	Hood, Zachary D.; Wang, Hui; Pandian, Amaresh Samuthira; Peng, Rui; Gilroy, Kyle D.; Chi, Miaofang; Liang, Chengdu; Xia, Younan	Fabrication of Sub-Micrometer-Thick Solid Electrolyte Membranes of beta-Li3PS4 via Tiled Assembly of Nanoscale, Plate-Like Building Blocks	Advanced Energy Materials	22.632	35	2018	1				1
35	HOP	Hopkins, FK ; Usechak, NG ; Kim, HJ ; Wang, XJ ; Trada, H ; Walsh, KM	Photodiode array for characterizing optical fibers	APPLIED OPTICS	1.791	1	2018	1				1
36	JAI	Jain, R.; Mamun, A. Al; Buchanan, R. M.; Kozlowski, P. M.; Grapperhaus, C. A.	Ligand-assisted metal-centered electrocatalytic hydrogen evolution upon reduction of a bis(thiosemicarbazonato)Ni(II) complex.	Inorg. Chem. 2018, 57, 13486–13493.	4.85	33	2018	1				1
37	JAS	J.B. Jasinski, D.A. Ziolkowska, J.S.D. Jangam, M. Athkar, G. Sumanasekera	3D carbons for energy and environmental technologies	AIP Conference Proceedings, 1992, 020003	0.415	1	2018		1			1
38	KHA	Khadgi, Prajwal; Bai, Lihui	A simulation study for residential electricity user behavior under dynamic variable pricing with demand charge	Iise Transactions	1.417	3	2018	1				1
39	KHA	Kharel, PL ; Zamborini, FP ; Alphenaar, BW	Enhancing the Photovoltaic Performance of Dye-Sensitized Solar Cells with Rare-Earth Metal Oxide Nanoparticles	JOURNAL OF THE ELECTROCHEMICAL SOCIETY	3.12	22	2018	1				1
40	KHA	Kharel, Porn L.; Cuillier, Paul M.; Fernando, Kasun; Zamborini, Francis P.; Alphenaar, Bruce W.	Effect of Rare-Earth Metal Oxide Nanoparticles on the Conductivity of Nanocrystalline Titanium Dioxide: An Electrical and Electrochemical Approach	Journal of Physical Chemistry C	4.309	12	2018	1				1
41	KHM	Khmaissia, F ; Frigui, H ; Sunkara, M ; Jasinski, J ; Garcia, AM ; Pace, T ; Menon, M	Accelerating band gap prediction for solar materials using feature selection and regression techniques	COMPUTATIONAL MATERIALS SCIENCE	3.01	7	2018		1	1		1
42	KIM	E. Kim, Z. Herde and J. Satyavolu	Evaluation and Utilization of Dicarboxylic Acids (DCA) as an Alternative to Strong Mineral Acids for Selective Extraction of C5-Sugars in an Integrated Biorefinery	Adv Ind Biotechnol 2018, 1: 001	0.947	2	2018		1			1
43	KOL	S. Kolli, M. Sunkara and B. Alphenaar	Reduction of leakage current at the SiNx/GaN interface in GaN Schottky Diodes	J. Materials Science: Materials in Electronics, 29 (22), 19353-19358	2.195	3	2018	1			1	1

44	KRY	Krzyzanowska, H ; Paxton, WF ; Yilmaz, M ; Mayo, A ; Kozub, J ; Howell, M ; Gregory, J ; Butler, JE ; Kang, WP ; Mu, R ; Davidson, JL ; Tolk, NH	Low temperature diamond growth arising from ultrafast pulsed-laser pretreatment	CARBON	7.082	3	2018			1		1
45	KSH	Kshirsagar, A ; Khanna, T ; Dhanwe, V ; Kate, KH ; Khanna, PK	Green Synthesis of Silver Nano-Particles by Use of Edible Oils	JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY	1.093	10	2018	1				1
46	KUM	Kumari, S., Pishgar, S., Schwarting, M.E., Paxton, W.F., Spurgeon, J.M.	Synergistic plasma-assisted electrochemical reduction of nitrogen to ammonia	ChemComm, 2018, 54, 13347-13350. DOI: 10.1039/C8CC07869F	6.164	19	2018		1			1
47	LAN	Landstrom, Evan B.; Handa, Sachin; Aue, Donald H.; Gallou, Fabrice; Lipshutz, Bruce H.	EvanPhos: a ligand for ppm level Pd-catalyzed Suzuki-Miyaura couplings in either organic solvent or water	Green Chemistry	9.308	33	2018	1				1
48	LEI	Lei, B ; Li, WG ; Tang, Z ; Tam, VWY ; Sun, ZH	Durability of recycled aggregate concrete under coupling mechanical loading and freeze-thaw cycle in salt-solution	CONSTRUCTION AND BUILDING MATERIALS	4.046	59	2018	1				1
49	LEI	Lei, B.; Li, W. G.; Li, Z. H.; Wang, G.; Sun, Z. H.	Effect of Cyclic Loading Deterioration on Concrete Durability: Water Absorption, Freeze-Thaw, and Carbonation	Journal of Materials in Civil Engineering	1.984	16	2018	1				1
50	LEN	Leng, Mengyao; Chang, Shinan; Lian, Yongsheng; Wu, Hongwei	Experimental Study of Water Film Dynamics Under Wind Shear and Gravity	Aiaa Journal	1.951	7	2018	1				1
51	LI	Li, Chuanliang; Li, Yachao; Ji, Zhonghua; Qiu, Xuanbing; Lai, Yunzhong; Wei, Jilin; Zhao, Yanting; Deng, Lunhua; Chen, Yangqin; Liu, Jinjun	Candidates for direct laser cooling of diatomic molecules with the simplest (1)Sigma-(1)Sigma electronic system	Physical Review A	3.012	11	2018	1				1
52	LI	Li, WG ; Luo, ZY ; Long, C ; Huang, ZY ; Huang, L ; Yu, Q ; Sun, ZH	Mechanical Strengths and Microstructures of Recycled Aggregate Concrete Incorporating Nanoparticles	ADVANCES IN CIVIL ENGINEERING MATERIALS	0.366	11	2018	1				1
53	LIU	Liu, JJ	Rotational and fine structure of open-shell molecules in nearly degenerate electronic states	JOURNAL OF CHEMICAL PHYSICS	2.997	6	2018	1				1
54	LIU	Liu, Li-Yang; Cho, MiJung; Sathitsuksanoh, Noppadon; Chowdhury, Sudip; Renneckar, Scott	Uniform Chemical Functionality of Technical Lignin Using Ethylene Carbonate for Hydroxyethylation and Subsequent Greener Esterification	Acs Sustainable Chemistry & Engineering	6.97	30	2018	1				1
55	LOE	T. Loeffler, H. Chan, B. Narayanan, M. Cherukara, S. Gray, and S. Sankaranarayanan	A configurational-bias-Monte-Carlo back-mapping algorithm for efficient and rapid conversion of coarse-grained water structures into atomistic models	Journal of Physical Chemistry B 122, 7102	2.923	1	2018	1				1
56	LU	Z. Lu, J.B. Jasinski, S. Handa, G. Hammond	Recyclable Cellulose-Palladium Nanoparticles for Clean Cross-Coupling Chemistry	Organic & Biomolecular Chemistry, 16, 2748-2752	3.585	21	2018	1			1	1
57	LUP	R. Lupitskyy, D. Alvarez-Fonseca, Z. Herde and J. Satyavolu	In-situ prevention of hydrogen sulfide formation during anaerobic digestion using zinc oxide nanowires	J. of Env. Chem. Eng., 2018, (6), 110–118	4.083	11	2018		1			1
58	MAR	A. Martinez-Garcia, H. B. Russell, W. Paxton, S. Ravipati, S. Calero-Barney, M. Menon, E. Richter, J. Young,T. Deutsch, M. K. Sunkara	Un-assisted Water Splitting Using a GaSbxP(1-x) Photoanode	Advanced Energy Materials, DOI: 10.1002/aenm.201703247	22.632	19	2018		1			1
59	MEH	Muhammad Taqi Mehran, Muhammad Zubair Khan, Seung-Bok Lee, Tak-Hyoung Lim, Sam Park, Rak-Hyun Song,	Improving sulfur tolerance of Ni-YSZ anodes of solid oxide fuel cells by optimization of microstructure and operating conditions,	International Journal of Hydrogen Energy, Volume 43, Issue 24, 14 (2018), pp. 11202-11213.	4.33	24	2018	1				1
60	MIC	M Michalska, D.A. Ziółkowska, J.B. Jasiński, P.H. Lee, P. Ławniczak, B. Andrzejewski, A. Ostrowski, W. Bednarski, S.-H. Wu, J.-Y. Lin	Improved electrochemical performance of LiMn2O4 cathode material by Ce doping	Electrochimica Acta 276, 37-46	5.383	37	2018				1	1
61	MOH	Mohebbi, Mohammad; McIntyre, Michael L.; Latham, Joseph	Impact Fault Detection for Linear Vapor Compressor Using RISE Observer	Ieee Transactions on Control Systems Technology	5.973	4	2018	1				1
62	MOH	Mohebbi, Mohammad; McIntyre, Michael L.; Latham, Joseph	Sensorless control of an H-bridge inverter with output inductor-capacitor filter	Iet Power Electronics	2.839	2	2018	1				1
63	MUL	Mulmi, Suresh; Hona, Ram Krishna; Jasinski, Jacek B.; Ramezanipour, Farshid	Electrical conductivity of Sr2-xCaxFeMnO5 (x=0, 1, 2)	Journal of Solid State Electrochemistry	2.531	16	2018	1			1	1
64	RAH	Rahneshin, V ; Ziolkowska, DA ; McClelland, A ; Cromwell, J ; Jasinski, JB ; Panchapakesan, B	The Coupled Straintronic-Photothermic Effect	SCIENTIFIC REPORTS	4.011	9	2018				1	1
65	RAO	Rao, KR ; Pishgar, S ; Strain, J ; Kumar, B ; Atla, V ; Kumari, S ; Spurgeon, JM	Photoelectrochemical reduction of CO2 to HCOOH on silicon photocathodes with reduced SnO2 porous nanowire catalysts	JOURNAL OF MATERIALS CHEMISTRY A	10.733	35	2018		1			1
66	RUD	G. A. Rudakov, A. V. Sosunov, R. S. Ponomarev, V. K. Khenner, Md. Shamim Reza, Gamini Sumanasekera	Synthesis of Hollow Carbon Nanoshells and Their Application for Supercapacitors	Physics of the Solid State, 60, No. 1, pp. 167–17	1.014	6	2018		1			1
67	SAR	Saraei, N.; Hietsoi, O.; Mullins, C. S.; Gupta, A. J.; Frye, B. C.; Mashuta, M. S.; Buchanan, R. M.; Grapperhaus, C. A.,	Streams, cascades, and pools: various water cluster motifs in structurally similar Ni(II) complexes.	CrystEngComm, 2018, 20, 7071–7081. Article Chosen for Journal Cover Image	3.382	5	2018	1				1
68	SAR	Saraei, Nina; Mullins, Christopher; Mashuta, Mark; Buchanan, Robert M.; Grapperhaus, Craig A.	Variation of water cluster motifs in structurally similar Ni(II) complexes: Synthesis, characterization, and thermal analyses	Abstracts of Papers of the American Chemical Society	14.695	0	2018	1				1

69	SAR	Sarma, Rupam; Islam, Md Saiful; Running, Mark P.; Bhattacharyya, Dibakar	Multienzyme Immobilized Polymeric Membrane Reactor for the Transformation of a Lignin Model Compound	Polymers	3.262	14	2018	1			1
70	SAT	Sathitsuksanoh, Noppadon	Renewable fuels and materials from plant biomass: Are we there yet?	Abstracts of Papers of the American Chemical Society	14.695	0	2018	1			1
71	SMI	Smith, JD ; Ansari, TN ; Andersson, MP ; Yadagiri, D ; Ibrahim, F ; Liang, SZ ; Hammond, GB ; Gallou, F ; Handa, S	Micelle-enabled clean and selective sulfonylation of polyfluoroarenes in water under mild conditions	GREEN CHEMISTRY	9.308	43	2018	1			1
72	SPU	Spurgeon, J.M.	Converting Sunlight to Clean Fuels: The Challenges of Artificial Photosynthesis and Progress at the Conn Center	International Conference on Renewable Energy Research and Education (RERE-2018), Andra Pradesh, India, AIP Conference Proceedings, 2018, 1992, 020002; https://doi.org/10.1063/1.5047949	1.03	1	2018		1		1
73	SPU	Spurgeon, J.M., and Kumar, B.	A Comparative Technoeconomic Analysis of Pathways for Commercial Electrochemical CO2 Reduction to Liquid Products	Energy Environ. Sci., 2018, 11, 1536-1551.	33.25	234	2018		1		1
74	SUN	M.K. Sunkara, Edited by C.V. Ramana, J. Suneetha, D. Krishna and K.R. Rao	Advanced Materials and Processes for Addressing Renewable Energy Challenges	International Conference on Renewable Energy Research and Education (RE2-2018), AIP Conference Proceedings, Vol. 1992, Article Number: UNSP 020001-1, DOI: 10.1063/1.5047948	1.03	0	2018		1		1
75	TEL	Telfah, Hamzeh; Reza, Md Asmaul; Alam, Jahangir; Paul, Anam C.; Liu, Jinjun	Direct Observation of Tetrahydrofuranyl and Tetrahydropyranyl Peroxy Radicals via Cavity Ring-Down Spectroscopy	Journal of Physical Chemistry Letters	7.329	7	2018	1			1
76	THE	Theaker, N ; Strain, JM ; Kumar, B ; Brian, JP ; Kumari, S ; Spurgeon, JM	Heterogeneously catalyzed two-step cascade electrochemical reduction of CO2 to ethanol	ELECTROCHIMICA ACTA	5.383	36	2018		1		1
77	TIT	I. F. Titiladunayo, I. O. Ahmed, H.O. Ogunsuyi, Satyavolu, J.	Production of Ethanol from Cassava Peelings Using a Developed Percolation Reactor	J. Sustainable Bioenergy Systems, January 2018.	2	1	2018		1	1	1
78	VIS	Vishnosky, Nicholas; Gupta, Alexander; Mashuta, Mark; Buchanan, Robert; Gupta, Gautam; Grapperhaus, Craig	Heterogeneous hydrogen evolution with novel nickel ATSM catalysts and the effect of surface morphology	Abstracts of Papers of the American Chemical Society	14.695	0	2018	1			1
79	WAN	H. Wang, M. Yu, Y. Wang, Z. Feng, Y. Wang, X. Lv, J. Zhu, Y. Ren, C. Liang	In-situ investigation of pressure effect on structural evolution and conductivity of Na3SbS4 superionic conductor	Journal of Power Source, 2018, 401, 111-116	7.467	14	2018	1			1
80	WAN	H. Wang, Y. Chen, Z.D. Hood, J.K. Keum, A.S. Pandian, M.F. Chi, K. An, C.D. Liang and M.K. Sunkara	Revealing the Structural Stability and Na-Ion Mobility of 3D Superionic Conductor Na3SbS4 at Extremely Low Temperatures	ACS Applied Energy Materials, 1 (12), DOI: 10.1021/acsaem.8b014.49, 7028-7034	0	8	2018		1		1
81	WAN	Wang, Hui; Hood, Zach; Chen, Yan; Keum, Jong; Pandian, Amaresh; Chi, Miaofang; An, Ke; Liang, Chengdu; Sunkara, Mahendra	Tetragonal Na3SbS4 electrolyte for all-solid-state sodium batteries operating below room temperature	Abstracts of Papers of the American Chemical Society	14.695	0	2018	1			1
82	ZEQ	Zequine, Camila; Bhoyate, Sanket; Siam, Khamis; Kahol, Pawan K.; Kostoglou, Nikolaos; Mitterer, Christian; Hinder, Steven J.; Baker, Mark A.; Constantinides, Georgios; Rebholz, Claus; Gupta, Gautam; Li, Xianglin; Gupta, Ram K.	Needle grass array of nanostructured nickel cobalt sulfide electrode for clean energy generation	Surface & Coatings Technology	3.46	14	2018	1			1
83	ZHA	Zhang, Chunyang; Bhoyate, Sanket; Kahol, Pawan K.; Siam, Khamis; Poudel, Tej Prasad; Mishra, Sanjay R.; Perez, Felio; Gupta, Alex; Gupta, Gautam; Gupta, Ram K.	Highly Efficient and Durable Electrocatalyst Based on Nanowires of Cobalt Sulfide for Overall Water Splitting	Chemnanomat	3.431	18	2018	1			1