

PUBLICATIONS BY YEAR			CONN CENTER STAFF & ASSOCIATED FACULTY		2013	4.919	2513		47	13	4	4	62
#	CODE	AUTHORS	TITLE	JOURNAL	IMPACT FACTOR	CITATIONS - 1/2022	YEAR	ASSOC FAC PUB	CONN STAFF-DRIVEN PUB	CENTER FACULTY COLLAB	FACULTY IW CENTER CONTRIB	TOTAL PUBS	
1	ABE	Abeyweera, Buddika K.; Alphenaar, Bruce W.	Analysis of the thickness dependent photocurrent spectra of organic bulk hetero junction solar cells	Proceedings Volume 8830, Organic Photovoltaics Xiv	N/A	1	2013	1				1	
2	ABE	Abeyweera, B. K., and B. W. Alphenaar	Thickness Dependent Red Shift of the Photocurrent Spectrum in Bulk Heterojunction Solar Cells	<i>Applied Physics Letters</i> 102, no. 4 (Jan 28 2013)	3.945	5	2013	1				1	
3	BAT	Bates, Alex; Hwang, Sunwook; Mukherjee, Santanu; Lee, Sang C.; Kwon, Osung; Choi, Gyeong Ho; Park, Sam	Simulation of an innovative polymer electrolyte membrane fuel cell design for self-control thermal management	<i>International Journal of Hydrogen Energy</i>	3.443	11	2013	1				1	
4	BAT	Bates, Alex; Mukherjee, Santanu; Hwang, Sunwook; Lee, Sang C.; Kwon, Osung; Choi, Gyeong Ho; Park, Sam	Simulation and experimental analysis of the clamping pressure distribution in a PEM fuel cell stack	<i>International Journal of Hydrogen Energy</i>	3.443	83	2013	1				1	
5	BAT	Bates, Alex; Mukherjee, Santanu; Lee, Sang C.; Kwon, Osung; Ha, Sungmok; Thomas, Sobi; Lee, Dong-Ha; Park, Sam	A High Energy Density System by Thin Metallic Bipolar Plates	<i>Polymer Electrolyte Fuel Cells 13 (Pefc 13)</i>	1.743	0	2013	1				1	
6	BEL	Bell, Alexander; Ehringer, William D.; McNamara, Shamus	Scavenged body heat powered infusion pump	<i>Journal of Micromechanics and Microengineering</i>	1.725	5	2013	1				1	
7	CAR	Carver, Austin L.; Fernando, Kasun; Shah, Hemant M.; Kolli, Sowmya; Abeyweera, Buddika; Alphenaar, Bruce W.; Menon, Madhu; Lisenkov, Sergey	Photoinduced Charge Transfer Across an Organic/Contact Interface: Polaronic State Spectroscopy	<i>Physical Chemistry of Interfaces and Nanomaterials Xii</i>	5.141	1	2013	1				1	
8	CHA	Chakrapani, V., G. U. Sumanasekera, B. Abeyweera, A. Sherehiy, an	Electrochemically Induced P-Type Conductivity in Carbon Nanotubes	<i>Ecs Solid State Letters</i> 2, no. 11 (2013): M57-M60	2.149	11	2013				1	1	
9	CHA	Chauhan, Rajat; Mashuta, Mark S.; Grapperhaus, Craig A.	Reinvestigation of the first structurally characterized metal-coordinated sulfenic acid complex	<i>Inorganic Chemistry Communications</i>	2.062	2	2013	1				1	
10	CHA	Chauhan, Rajat; Moreno, Monica; Zamborini, Francis P.; Grapperhaus, Craig A.	Metal stabilized thiy radicals as scaffolds for ethylene detection	<i>Abstracts of Papers of the American Chemical Society</i>	12.226	0	2013	1				1	
11	CHE	Chen, Ming-Wei; Chen, I. Chia; Liu, Jinjun; Miller, Terry A.; Dlott, Dana D.	Laser spectroscopy and imaging techniques studying chemicals and dynamics of chemical reaction in gas and condensed phases	<i>Abstracts of Papers of the American Chemical Society</i>	12.226	0	2013	1				1	
12	COL	Colburn, Jordan; Baumer, Evan; McNamara, Shamus	A novel single mask "pit and pitch" MOSFET design and simulation	2013 Proceedings of IEEE Southeastcon	0	1	2013	1				1	
13	CUM	D. R. Cummins, H. B. Russell, J. Jasinski, M. Menon, M.K. Sunkara	Single Crystal Pyrite Nanowires and Nanotubes Using Sulfurization of Hematite Nanowires	<i>Nano Lett.</i> , 2013, 13 (6), pp 2423-2430	14.184	74	2013		1			1	
14	DHA	Dharmadasa, Ruvini; Jha, Menaka; Amos, Delaina A.; Druffel, Thad	Room Temperature Synthesis of a Copper Ink for the Intense Pulsed Light Sintering of Conductive Copper Films	<i>Acs Applied Materials & Interfaces</i>	5.9	94	2013		1	1		1	
15	HAD	Haddad, Andrew Z.; Chauhan, Rajat; Moreno, Monica; Grapperhaus, Craig A.; Zamborini, Francis P.	Homogeneous and heterogeneous hydrogen production via ligand-centered proton reduction	<i>Abstracts of Papers of the American Chemical Society</i>	12.226	0	2013	1				1	
16	JAS	J. Jasinski, D. Ziolkowska, M. Michalska, L. Lipinska, K. Korona, M. Kaminska	Novel Graphene-Oxide/Manganese Oxide Nanocomposites	<i>RSC Adv.</i> , 2013, 3, 22857-22862	3.708	18	2013		1			1	
17	JAY	Jayasingha, R., A. Sherehiy, S. Y. Wu, and G. U. Sumanasekera	In Situ Study of Hydrogenation of Graphene and New Phases of Localization between Metal-Insulator Transitions	<i>Nano Letters</i> 13, no. 11 (Nov 2013): 5098-105	14.184	38	2013		1			1	
18	KAN	Kanniah, V., E. A. Grulke and T. Druffel	The effects of surface roughness on low haze ultrathin nanocomposite films	<i>Thin Solid Films</i> 539: 170-180. DOI: 10.1016/j.tsf.2013.04.126	2.115	15	2013		1			1	
19	KOL	S. Kolli, C. S. Pendyala, M. Sunkara, J. Jasinski, B. Alphenaar	Thermally Activated Luminescence in InN Nanowires	<i>Journal of Luminescence</i> 141, 162-165 (2013)	1.675	4	2013				1	1	
20	KUM	Kumar, Davinder; Masitas, Cesar A.; Nguyen, Tho N.; Grapperhaus, Craig A.	Bioinspired catalytic nitrile hydration by dithiolato, sulfinato/thiolato, and sulfenato/sulfinato ruthenium complexes	<i>Chemical Communications</i>	6.718	16	2013	1				1	

KUM 21	Kumar, Davinder; Masitas, Cesar A.; Nguyen, Tho N.; Grapperhaus, Craig A.	Sulfur-oxidation effects on catalytic nitrile hydration using Ru(II)/(III) complexes: Relevance to enzyme nitrile hydratase	Abstracts of Papers of the American Chemical Society	12.226	0	2013	1		1
KWO 22	Kwon, Osung; Lee, Sang C.; Lee, D. H.; Sahu, A. K.; Shanmugam, S.; Kim, M. H.; Park, Sam	Anhydrous Proton Conducting Hybrid Proton Exchange Membrane by Phase Mode Atomic Force Microscopy	Polymer Electrolyte Fuel Cells 13 (Pefc 13)	1.546	0	2013	1		1
LIN 23	Lin, Ji-Tzuoh; Walsh, Kevin; Alphenaar, Bruce	Enhanced stochastic, subharmonic, and ultraharmonic energy harvesting	Journal of Intelligent Material Systems and Structures	2.172	7	2013	1		1
LIU 24	Liu, F. J.; Sun, Z. H.	Feasibility Study of Using Raman Spectroscopy to Detect Hydration in Wet Pastes	Acta Materials Journal	1.123	8	2013	1		1
LIU 25	Liu, Jinjun; Melnik, Dmitry; Miller, Terry A.	High-resolution laser-induced fluorescence spectroscopy of ethoxy, isopropoxy and cyclohexoxy: Rotational and fine structure of molecules in nearly degenerate electronic states	Abstracts of Papers of the American Chemical Society	12.226	0	2013	1		1
LIU 26	Liu, Jinjun; Melnik, Dmitry; Miller, Terry A.	Rotationally resolved (B)over-tilde - (X)over-tilde electronic spectra of the isopropoxy radical: A comparative study	Journal of Chemical Physics	3.182	0	2013	1		1
LOO 27	Loomis, J., X. M. Fan, F. Khosravi, P. Xu, M. Fletcher, R. W. Cohn, and B. Panchapakesan	Graphene/Elastomer Composite-Based Photo-Thermal Nanopositioners	Scientific Reports 3 (May 28 2013)	5.078	92	2013	1		1
LU 28	Lu, Mei; Campbell, J. Larry; Chauhan, Rajat; Grapperhaus, Craig A.; Chen, Hao	Probing the Reactivity and Radical Nature of Oxidized Transition Metal-Thiolate Complexes by Mass Spectrometry	Journal of the American Society for Mass Spectrometry	3.374	6	2013	1		1
LUC 29	Lucas, Thomas M.; Moiseeva, Evgeniya V.; Zhang, Guandong; Gobin, Andre M.; Harnett, Cindy K.	Thermal properties of infrared absorbent gold nanoparticle coatings for MEMS applications	Sensors and Actuators a-Physical	2.589	13	2013	1		1
LUI 30	Luitel, Tulashi; Pandit, Bill; Cummins, Dustin R.; Liu, Jinjun; Zamborini, Francis P.	Interfacial surface modification of photoanodes at molecular level for chemically stable dye-sensitized solar cells	Abstracts of Papers of the American Chemical Society	12.226	0	2013	1		1
LUI 31	Luitel, T., and F. P. Zamborini	Covalent Modification of Photoanodes for Stable Dye-Sensitized Solar Cells	Langmuir 29, no. 44 (Nov 5 2013): 13582-94	4.384	29	2013	1		1
MAR 32	A. Martinez-Garcia, V. K. Vendra, S. Sunkara, P. Haldankar, J. B. Jasinski, M. K. Sunkara	Tungsten oxide coated copper oxide nanowire arrays for enhanced activity with photoelectrochemical water splitting	J. Mater. Chem. A, 2013, 1, 15235-15241	6.626	62	2013		1	1
MAR 33	Marei, Mohamed M.; Roussel, Thomas J.; Keynton, Robert S.; Baldwin, Richard P.	Electrochemical and microfabrication strategies for remotely operated smart chemical sensors: Application of anodic stripping coulometry to calibration-free measurements of copper and mercury	Analytica Chimica Acta	4.517	13	2013	1		1
MAS 34	Masitas, Cesar A.; Mashuta, Mark S.; Grapperhaus, Craig A.	Sulfur Oxygenation Enhances Ligand Exchange in Nitrile-Hydratase-Inspired Ruthenium(II) Complexes	ACS: Bioinorganic Chemistry: The Biological Chemistry of Sulfur, Selenium, and Tellurium	12.226	0	2013	1		1
MCC 35	McCreary, Michael Z.; Jha, Menaka; Amos, Delaina A.	Printed Hybrid Quantum Dot Light-Emitting Diodes For Lighting Applications	2013 Conference on Lasers and Electro-Optics (Cleo)	N/A	0	2013	1		1
MCI 36	McIntyre, Michael L.; Schoen, Michael; Latham, Joseph	Backstepping Control of a Capacitance-less Photovoltaic Power Converter with Maximum Power Point Tracking	2013 IEEE 39th Photovoltaic Specialists Conference (Pvsc)	N/A	2	2013	1		1
MCI 37	McIntyre, Michael L.; Schoen, Michael; Latham, Joseph	Simplified Adaptive Backstepping Control of Buck DC: DC Converter with Unknown Load	2013 IEEE 14th Workshop on Control and Modeling for Power Electronics (Compel)	N/A	2	2013	1		1
MIL 38	Miller, Kane; Li, Mingxiao; Walsh, Kevin M.; Fu, Xiao-An	The effects of DRIE operational parameters on vertically aligned micropillar arrays	Journal of Micromechanics and Microengineering	1.794	27	2013	1		1
PAN 39	Pandit, Bill; Luitel, Tulashi; Cummins, Dustin R.; Thapa, Arjun K.; Druffel, Thad; Zamborini, Frank; Liu, Jinjun	Spectroscopic Investigation of Photoinduced Charge-Transfer Processes in FTO/TiO2/N719 Photoanodes with and without Covalent Attachment through Silane-Based Linkers	Journal of Physical Chemistry A	2.775	32	2013	1	1	1
PAN 40	Pandit, Bill; Luitel, Tulashi; Kalyan, Venkat; Cummings, Dustin; Zamborini, Frank; Druffel, Thad; Sunkara, Mahendra; Liu, Jinjun	Spectroscopic investigation of photoinduced charge transfer processes in dye sensitized solar cell materials	Abstracts of Papers of the American Chemical Society	12.226	32	2013	1	1	1
POR 41	Porter, Daniel A.; Gowrishetty, Usha R.; Phelps, Isaac J.; Walsh, Kevin M.; Berfield, Thomas A.	Mechanics of Buckled Structure Memes for Actuation and Energy Harvesting Applications	International Mechanical Engineering Congress and Exposition - 2012, Vol 9, Pts a and B	N/A	4	2013	1		1
RAF 42	Rafi, H. K.; Karthik, N. V.; Gong, Haijun; Starr, Thomas L.; Stucker, Brent E.	Microstructures and Mechanical Properties of Ti6Al4V Parts Fabricated by Selective Laser Melting and Electron Beam Melting	Journal of Materials Engineering and Performance	0.981	643	2013	1		1
RAF 43	Rafi, H. Khalid; Starr, Thomas L.; Stucker, Brent E.	A comparison of the tensile, fatigue, and fracture behavior of Ti-6Al-4V and 15-5 PH stainless steel parts made by selective laser melting	International Journal of Advanced Manufacturing Technology	1.779	279	2013	1		1
ROB 44	Robinson, Brian S.; Chmielewski, Nicholas E.; Knox-Kelecy, Andrea; Brehob, Ellen G.; Sharp, M. Keith	Heating season performance of a full-scale heat pipe assisted solar wall	Solar Energy	3.541	40	2013	1		1
SAM 45	Sampson, Kagna Ouch; Kumar, Davinder; Mashuta, Mark S.; Grapperhaus, Craig A.	Addition of polysubstituted alkenes, aromatic alkynes, and dienes to a metal-stabilized thyl radical via carbon-sulfur bond formation: Electrochemical, chemical, and computational investigations	Inorganica Chimica Acta	2.127	8	2013	1		1

SCH 46	Schoen, Michael; McIntyre, Michael	Vehicle to Grid as a Household Backup Generator Utilizing a Novel Backstepping Controller with Uncertain Load for Full Bridge Converter	2013 4th IEEE International Symposium on Power Electronics for Distributed Generation Systems (PEDG)	N/A	2	2013	1		1
SHA 47	Shah, H., A. Carver, K. Fernando, S. Kolli, B. Abeyweera, S. Lisenkov, M. Menon, and B. Alphenaar	Optical Generation and Detection of Polaronic States in Pcbm	<i>Journal of Physical Chemistry C</i> 117, no. 50 (Dec 19 2013): 26538-42	4.835	2	2013	1		1
SHE 48	Sherehiy, A., S. Dumpala, A. Safir, D. Mudd, I. Arnold, R. W. Cohn, M. K. Sunkara, and G. U. Sumanasekera	Thermionic Emission Properties and the Work Function Determination of Arrays of Conical Carbon Nanotubes	<i>Diamond and Related Materials</i> 34 (Apr 2013): 1-8	1.894	18	2013	1	1	1
SLA 49	W. Slawinski, R. Przenioslo, I. Sosnowska, D. Wardecki, A. N. Fitch, M.o Bieringer, J. B. Jasinski	Particle and crystallite size effects on the modulated structure of multiferroic CaMn ₇ O ₁₂	<i>Journal of Solid State Chemistry</i> 198 (2013) 392-398	2.2	5	2013	1		1
SOL 50	Soleimanpour, A. M., A. H. Jayatissa, and G. Sumanasekera	Surface and Gas Sensing Properties of Nanocrystalline Nickel Oxide Thin Films	<i>Applied Surface Science</i> 276 (Jul 1 2013): 291-97.	2.841	92	2013	1		1
SOO 51	Soong, Chia-Wei; Garverick, Steven L.; Fu, Xiao-An; Patil, Amita C.; Mehregany, Mehran	A Fully Monolithic 6H-SiC JFET-Based Transimpedance Amplifier for High-Temperature Capacitive Sensing	<i>IEEE Transactions on Electron Devices</i>	3.066	9	2013	1		1
SUN 52	Sunkara, S., V. K. Vendra, J. H. Kim, T. Druffel and M. K. Sunkara	Scalable synthesis and photoelectrochemical properties of copper oxide nanowire arrays and films	<i>Catalysis Today</i> 199(0): 27-35. DOI: 10.1016/j.cattod.2012.03.014	3.723	49	2013	1		1
THO 53	Thomas, Sobi; Kwon, Osung; Lee, Sang C.; Park, Sam; Choi, G. H.; Choi, J. Y.	Optimized Flow Distribution for Enhancing Temperature Uniformity across an Open Cathode PEM Fuel Cell Stack	<i>Polymer Electrolyte Fuel Cells</i> 13 (Pefc 13)	1.546	1	2013	1		1
VEN 54	Venkiteela, G.; Sun, Z. H.; Najm, H.	Prediction of Early Age Normal Concrete Compressive Strength Based on Dynamic Shear Modulus Measurements	<i>Journal of Materials in Civil Engineering</i>	1.322	7	2013	1		1
XIE 55	Z. Xie, M. Zhu, A. Nambo, J. B. Jasinski, M. A. Carreon	Microwave-assisted synthesized SAPO-56 as catalyst in the conversion of CO ₂ to cyclic carbonates	<i>Dalton Trans.</i> , 2013,42, 6732-6735	4.347	40	2013	1		1
XIO 56	Xiao, J. Z.; Li, W. G.; Sun, Z. H.; Lange, D. A.; Shah, S. P.	Properties of interfacial transition zones in recycled aggregate concrete tested by nanoindentation	<i>Cement & Concrete Composites</i>	3.93	332	2013	1		1
YOK 57	Yokel, Robert A.; Tseng, Michael T.; Dan, Mo; Unrine, Jason M.; Graham, Uschi M.; Wu, Peng; Grulke, Eric A.	Biodistribution and biopersistence of ceria engineered nanomaterials: size dependence	<i>Nanomedicine-Nanotechnology Biology and Medicine</i>	7.439	83	2013	1		1
YU 58	Yu, M., C. S. Jayanthi, and S. Y. Wu	Size-, Shape-, and Orientation-Dependent Properties of SiC Nanowires of Selected Bulk Polytypes	<i>Journal of Materials Research</i> 28, no. 1 (Jan 2013): 57-67	1.815	16	2013	1		1
ZHU 59	Zhu, Li; Dharmasena, Ruchira; McNamara, Shamus	MOS Tunneling Strain Sensor Using an AC Measurement Technique	2013 8th Annual IEEE International Conference on Nano/Micro Engineered and Molecular Systems (IEEE NEMS 2013)	N/A	0	2013	1		1
ZIO 60	D. Ziolkowska, K. P. Korona, B. Hamankiewicz, S. -H. Wu, M. -S. Chen, J. B. Jasinski, M. Kaminska, A. Czerwinski	The role of SnO ₂ surface coating on the electrochemical performance of LiFePO ₄ cathode materials	<i>Electrochimica Acta</i> 108 (2013) 532- 539	4.345	34	2013	1		1
ZWA 61	Zwanzig, Stephen D.; Lian, Yongsheng; Brehob, Ellen G.	Numerical simulation of phase change material composite wallboard in a multi-layered building envelope	<i>Energy Conversion and Management</i>	4.775	145	2013	1		1
ZWA 62	Zwanzig, Stephen D.; Lian, Yongsheng; Brehob, Ellen G.	Numerical Simulation of Phase Change Material Composite Wallboard in a Multi-Layered Building Envelope	International Mechanical Engineering Congress and Exposition - 2012, Vol 6, Pts a and B	N/A	0	2013	1		1