

PUBLICATIONS BY YEAR			CONN CENTER STAFF & ASSOCIATED FACULTY			2015	3.856	2841		42	18	4	11	71
#	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	M. Ahmadi, A. Nambo, J. B. Jasinski, P. Ratnasamy and M. A. Carreon	Decarboxylation of oleic acid over Pt catalysts supported on small-pore zeolites and hydrotalcite	<i>Catal. Sci. Technol.</i> , 2015, 5, 380-388	5.287	65	2015					1	1	
2	AKH	M. Akhtar, M. Menon, M. Sunkara, G. Sumanasekera, A. Durygin, J. Jasinski	High Pressure Synthesis of Rhombohedral α -AgGaO ₂ via Direct Solid State Reaction	<i>Journal of Alloys and Compounds</i> 641, 87-92 (2015).	3.014	15	2015			1			1	
3	ALA	Alam, Jahangir; Reza, Md Asmaul; Mason, Amy; Reilly, Neil J.; Liu, Jinjun	Dispersed Fluorescence Spectroscopy of Jet-Cooled 2-, 3-, and 4-Methylcyclohexoxy Radicals	<i>Journal of Physical Chemistry A</i>	3.088	9	2015	1					1	
4	AZA	A. Azadi, S. S. Patnaik, J. B. Jasinski, S. L. Francis, Z. Lei, J. Liao, N. E. Deveneau, D.R. Ostergard	Morphologic Evaluation of Post-implanted Monofilament Polypropylene Mesh Utilizing a Novel Technique with Scanning Electron Microscopy Quantification	<i>Surgical Technology International</i> 26, 169-173 (2015)	1.187	0	2015					1	1	
5	BAT	Bates, Alex; Mukherjee, Santanu; Schuppert, Nicholas; Son, Byungrak; Kim, Joo Gon; Park, Sam	Modeling and simulation of 2D lithium-ion solid state battery	<i>International Journal of Energy Research</i>	2.529	37	2015	1					1	
6	BEL	Belozeroval, T. S., A. G. Demenev, V. K. Henner, P. V. Kharebov, E. K. Khenner, and G.U. Sumanasekera	Use of Supercomputer for Modeling Coherent Processes in Magnetic Nano-Structures	<i>Computational Materials Science</i> 102 (May 2015): 228-33	2.38	5	2015			1			1	
7	CAR	M. L. Carreon, A. K. Thapa J. B. Jasinski, M. K. Sunkara	The capacity and durability of amorphous silicon nanotube thin film anode for lithium ion battery applications	<i>ECSS Electrochemistry Letters</i> 4, A124-A128 (2015)	0.767	17	2015			1			1	
8	CHE	Chen, Rui; Zhang, Lili; Ge, Cuicui; Tseng, Michael T.; Bai, Ru; Qu, Ying; Beer, Christiane; Autrup, Herman; Chen, Chunying	Subchronic Toxicity and Cardiovascular Responses in Spontaneously Hypertensive Rats after Exposure to Multiwalled Carbon Nanotubes by Intratracheal Instillation	<i>Chemical Research in Toxicology</i>	3.025	52	2015	1					1	
9	CHE	Chen, Yan; Lian, Yongsheng	Numerical investigation of vortex dynamics in an H-rotor vertical axis wind turbine	<i>Engineering Applications of Computational Fluid Mechanics</i>	1.033	39	2015	1					1	
10	CUM	Cummins, Dustin R.; Martinez, Ulises; Kappera, Rajesh; Voiry, Damien; Martinez-Garcia, Alejandro; Jasinski, Jacek; Kelly, Dan; Chhowalla, Manish; Mohite, Aditya D.; Sunkara, Mahendra K.; Gupta, Gautam	Catalytic Activity in Lithium-Treated Core-Shell MoOx/MoS ₂ Nanowires	<i>Journal of Physical Chemistry C</i>	4.509	30	2015					1	1	
11	DHA	Dharmadasa, I. M., O. K. Echendu, F. Fauzi, N. A. Abdul-Manaf, H. I. Salim, T. Druffel, R. Dharmadasa and B. Lavery	Effects of CdCl ₂ treatment on deep levels in CdTe and their implications on thin film solar cells: a comprehensive photoluminescence study	<i>Journal of Materials Science: Materials in Electronics</i> 26(7): 4571-4583. DOI: 10.1007/s10854-015-3090-4	1.798	32	2015			1			1	
12	DHA	Dharmadasa, R., B. W. Lavery, I. M. Dharmadasa and T. Druffel	Processing of CdTe thin films by intense pulsed light in the presence of CdCl ₂ .	<i>Journal of Coatings Technology and Research</i> 12(5): 835-842. DOI: 10.1007/s11998-015-9688-x	1.535	14	2015			1			1	
13	DRA	Draper, G. L., R. Dharmadasa, M. E. Staats, B. W. Lavery and T. Druffel	Fabrication of Elemental Copper by Intense Pulsed Light Processing of a Copper Nitrate Hydroxide Ink	<i>ACS Appl Mater Interfaces</i> 7(30): 16478-16485. DOI: 10.1021/acsami.5b03854	6.723	40	2015			1			1	
14	FAN	X. Fan, F. Khosravi, V. Rahnesin, M. Shanmugam, M. Loeian, J. Jasinski, R. W. Cohn, E. Terentjev, B. Panchapakesan	MoS ₂ actuators: reversible mechanical responses of MoS ₂ -polymer nanocomposites to photons	<i>Nanotechnology</i> 26, 261001 (2015).	3.855	48	2015	1				1	1	
15	FAN	Fang, A. Q., S. L. White, R. A. Masitas, F. P. Zamborini, and P. K. Jai	One-to-One Correlation between Structure and Optical Response in a Heterogeneous Distribution of Plasmonic Constructs	<i>Journal of Physical Chemistry C</i> 119, no. 42 (Oct 22 2015): 24086-94	4.509	15	2015	1					1	
16	FAU	Faul, Andre; Naber, John	A novel 915 MHz, RFID-based pressure sensor for glaucoma using an electrically small antenna	<i>Analog Integrated Circuits and Signal Processing</i>	0.417	5	2015	1					1	
17	GOR	Gori, Sadakataii S.; Raju, Mandapati V. Ramakrishnam; Fonseca, Dania A.; Satyavolu, Jagannadh; Burns, Christopher T.; Nantz, Michael H.	Isolation of C5-Sugars from the Hemicellulose-Rich Hydrolyzate of Distillers Dried Grains	<i>Acs Sustainable Chemistry & Engineering</i>	5.267	13	2015			1	1		1	
18	GUP	S Gupta, M vanMeveren, J Jasinski	Investigating Electrochemical Properties and Interfacial Processes of Manganese Oxides/Graphene Hybrids as High-Performance Supercapacitor Electrodes	<i>International Journal of Electrochemical Science</i> 10, 10272-10291 (2015)	1.692	18	2015			1			1	
19	GUP	S. Gupta, E. Heintzman, J. Jasinski	Multiphonon Raman spectroscopy properties and Raman mapping of 2D van der Waals solids: graphene and beyond	<i>Journal of Raman Spectroscopy</i> 46 (2), 217-230 (2015).	2.395	16	2015			1			1	
20	GUP	S. Gupta, E. Heintzman, J. Jasinski	Nanocarbon hybrids of graphene-based materials and ultradispersed diamond: investigating structure and hierarchical defects evolution with electron-beam irradiation	<i>Journal of Raman Spectroscopy</i> (2015); DOI: 10.1002/jrs.4682	2.395	10	2015			1			1	

GUP 21	S. Gupta, M. M. van Meveren, J. Jasinski	Graphene-Based Hybrids with Manganese Oxide Polymorphs as Tailored Interfaces for Electrochemical Energy Storage: Synthesis, Processing, and Properties	<i>Journal of Electronic Materials</i> , 44 (1), 62-78 (2015)	1.491	12	2015	1		1
HAD 22	Haddad, Andrew Z.; Kumar, Davinder; Sampson, Kagna Ouch; Matzner, Anna M.; Mashuta, Mark S.; Grapperhaus, Craig A.	Proposed Ligand-Centered Electrocatalytic Hydrogen Evolution and Hydrogen Oxidation at a Noninnocent Mononuclear Metal-Thiolate	<i>Journal of the American Chemical Society</i>	13.954	56	2015	1		1
JAR 23	Jaramillo-Cabanzo, Daniel F.; Willing, Gerold A.; Sunkara, Mahendra K.	Plasma Etching Chemistry for Smoothing of Ultrananocrystalline Diamond Films	<i>Ecs Solid State Letters</i>	1.162	7	2015	1	1	1
JAY 24	K.M.D.C. Jayathilaka, A.M.R. Jayasinghe, G.U. Sumanasekera, V. Kapaklis, W. Siripala, and J.K.D.S. Jayanetti	Effect of chlorine doping on electrodeposited cuprous oxide thin films	<i>Phys. Status Solidi B</i> , 1–6	1.646	20	2015			1
JHA 25	Jha, M., R. Dharmadasa, G. L. Draper, A. Sherehiy, G. Sumanasekera, D. Amos and T. Druffel	Solution phase synthesis and intense pulsed light sintering and reduction of a copper oxide ink with an encapsulating nickel oxide barrier	<i>Nanotechnology</i> 26(17): 175601. DOI: 10.1088/0957-4484/26/17/175601	3.855	15	2015	1		1
KHA 26	Khadgi, Prajwal; Bai, Lihui; Evans, Gerald; Zheng, Qipeng P.	A simulation model with multi-attribute utility functions for energy consumption scheduling in a smart grid	<i>Energy Systems-Optimization Modeling Simulation and Economic Aspects</i>	1.313	14	2015	1		1
KIM 27	Kim, Joo Gon; Mukherjee, Santanu; Bates, Alex; Zickel, Benjamin; Park, Sam; Son, Byung Rak; Choi, Jae Sung; Kwon, Osung; Lee, Dong Ha; Chung, Hyun-Youl	Autocorrelation standard deviation and root mean square frequency analysis of polymer electrolyte membrane fuel cell to monitor for hydrogen and air undersupply	<i>Journal of Power Sources</i>	6.333	8	2015	1		1
KIM 28	Kim, Joo Gon; Son, Byungrak; Mukherjee, Santanu; Schuppert, Nicholas; Bates, Alex; Kwon, Osung; Choi, Moon Jong; Chung, Hyun Yeol; Park, Sam	A review of lithium and non-lithium based solid state batteries	<i>Journal of Power Sources</i>	6.333	560	2015	1		1
KUM 29	Kumar, Davinder; Mashuta, Mark S.; Grapperhaus, Craig A.	Metal-centered oxidation decreases nitrile hydration activity of bioinspired (N2S3)Ru-PPh3 precatalysts	<i>Inorganic Chemistry Communications</i>	1.762	2	2015	1		1
KWO 30	Kwon, Osung; Park, Sam; Kim, Joo Gon; Son, Byungrak; Lee, Dong-Ha	Morphological characterization of sulfonated graphene and Nafion composite membrane by dynamic mode atomic force microscopy	<i>International Journal of Energy Research</i>	2.529	5	2015	1		1
LI 31	Li, Guibo; Lian, Yongsheng; Guo, Yisen; Jemison, Matthew; Sussman, Mark; Helms, Trevor; Arienti, Marco	Incompressible multiphase flow and encapsulation simulations using the moment-of-fluid method	<i>International Journal for Numerical Methods in Fluids</i>	2.113	26	2015	1		1
LI 32	Li, W. G.; Huang, Z. Y.; Cao, F. L.; Sun, Z. H.; Shah, S. P.	Effects of nano-silica and nano-limestone on flowability and mechanical properties of ultra-high-performance concrete matrix	<i>Construction and Building Materials</i>	2.421	184	2015	1		1
LIU 33	Liu, F. J.; Sun, Z. H.; Qi, C. Q.	Raman spectroscopy of the dehydration process of gypsums	<i>Advances in Cement Research</i>	1.053	6	2015	1		1
LIU 34	Liu, F. J.; Sun, Z. H.; Qi, C. Q.	Raman Spectroscopy Study on the Hydration Behaviors of Portland Cement Pastes during Setting	<i>Journal of Materials in Civil Engineering</i>	1.295	34	2015	1		1
LIU 35	Liu, Jinjun; Reilly, Neil J.; Mason, Amy; Miller, Terry A.	Laser-Induced Fluorescence Spectroscopy of Jet-Cooled t-Butoxy	<i>Journal of Physical Chemistry A</i>	3.088	11	2015	1		1
LUP 36	Lupitskyy, Robert; Vendra, Venkat Kalyan; Jasinski, Jacek; Amos, Delaina A.; Sunkara, Mahendra K.; Druffel, Thad	Toward high-efficiency dye-sensitized solar cells with a photoanode fabricated via a simple water-based formulation	<i>Progress in Photovoltaics</i>	7.365	6	2015	1	1	1
MAR 37	A. Martinez-Garcia, A. K. Thapa, R. Dharmadasa, T. Nguyen, T. L. Druffel, J. Jasinski, M. Sunkara	High rate and durable, binder free anode based on silicon loaded MoO ₃ nanoplatelets	<i>Scientific Reports</i> 5, 10530 (2015).	5.228	21	2015	1		1
MCI 38	McIntyre, Michael L.; Mohebbi, Mohammed; Latham, Joseph	Nonlinear Current Observer for Backstepping Control of Buck-Type Converters	2015 IEEE 16th Workshop on Control and Modeling for Power Electronics (COMPEL)	N/A	4	2015	1		1
MOH 39	Mohebbi, Mohammad; McIntyre, Michael L.; Latham, Joseph	Energy Efficient DC to AC Power Conversion Using Advanced Controllers and Novel Voltage Trajectories	2015 IEEE 16th Workshop on Control and Modeling for Power Electronics (COMPEL)	N/A	10	2015	1		1
MOH 40	Mohebbi, Mohammad; McIntyre, Michael L.; Latham, Joseph	Vehicle to Grid Utilizing a Backstepping Controller for Bidirectional Full-Bridge Converter and Five Level Active Neutral Point Inverter	2015 IEEE 16th Workshop on Control and Modeling for Power Electronics (Compel)	N/A	8	2015	1		1
MOZ 41	Miran Mozetič, Gregor Primc, Alenka Vesel, Rok Zaplotnik, Martina Modic, Ita Junkar, Nina Recek, Marta Klanjšek-Gunde, Lukus Guhy, Mahendra K Sunkara	Application of Extremely Non-Equilibrium Plasmas in the Processing of Nano and Biomedical Materials	<i>Plasma Sources Science & Technology</i> 24, no. 1 (Feb 2015)	3.381	38	2015	1		1
MUK 42	Mukherjee, Santanu; Bates, Alex; Schuppert, Nicholas; Son, Byungrak; Kim, Joo Gon; Choi, Jae Sung; Choi, Moon Jong; Lee, Dong-Ha; Kwon, Osung; Jasinski, Jacek; Park, Sam	A study of a novel Na ion battery and its anodic degradation using sodium rich prussian blue cathode coupled with different titanium based oxide anodes	<i>Journal of Power Sources</i>	6.333	21	2015	1		1
MUK 43	Mukherjee, S., A. Bates, S. C. Lee, D. H. Lee, and S. Park	A Review of the Application of Cnts in Pem Fuel Cells	<i>International Journal of Green Energy</i> 12, no. 8 (2015): 787-809	1.601	30	2015	1		1
NAE 44	Rabia Naem; Sohail Ahmed; Kong Mun Lo; Wan Jefry Basirun; Rosiyah Yahya; Misni Misran; T. A. Nirmal Peiris; Jagdeep S Sagu; K. G. Upul Wijayantha; Arjun K Thapa; Gaminu U. Sumanasekera; Muhammad Mazhar	Electric-Field Aerosol-Assisted CVD: Synthesis, Characterization, and Properties of Tin Oxide Microballs Prepared from a Single Source Precursor	<i>Chemical Vapor Deposition</i> 21(2015) 1-9	2.071	8	2015			1
NAM 45	A. Nambo, C. M. Mirdala, J. B. Jasinski, M. A. Carreon	Methanolysis of olive oil for biodiesel synthesis over ZnO nanorods	<i>Reaction Kinetics, Mechanisms and Catalysis</i> 114, 583-595 (2015)	1.439	18	2015			1

46	NEY	Neys, E. C., K. Ostrikov, M. K. Sunkara, and A. Bogaerts	Plasma Catalysis: Synergistic Effects at the Nanoscale	Chemical Reviews 115, no. 24 (Dec 23 2015): 13408-46	37.369	415	2015			1	1
47	PAN	Pandit, Bill; Dharmadasa, Ruvini; Dharmadasa, I. M.; Druffel, Thad; Liu, Jinjun	Ultrafast charge carrier relaxation and charge transfer processes in CdS/CdTe thin films	Physical Chemistry Chemical Physics	4.707	6	2015	1	1		1
48	RAD	Radfar, Ata; Rockaway, Thomas Doan	Neural Networks Models for Captured Runoff Prediction of Permeable Interlocking Concrete Pavements	World Environmental and Water Resources Congress 2015: Floods, Droughts, and Ecosystems	N/A	3	2015	1			1
49	RAT	Ratnayake, Dilan; Martin, Michael D.; Gowrishetty, Usha R.; Porter, Daniel A.; Berfield, Thomas A.; McNamara, Shamus P.; Walsh, Kevin M.	Engineering stress in thin films for the field of bistable MEMS	Journal of Micromechanics and Microengineering	1.768	13	2015	1			1
50	ROB	Robinson, Brian S.; Dorwart, Jordan; Sharp, M. Keith	US space cooling potentials for ambient sources with thermal energy storage	International Journal of Ambient Energy	0.9	17	2015	1			1
51	ROB	Robinson, Brian S.; Sharp, M. Keith	Reducing unwanted thermal gains during the cooling season for a solar heat pipe system	Solar Energy	3.685	8	2015	1			1
52	RUB	Rubin, Paul A.; Bai, Lihui	Forming competitively balanced teams	Iie Transactions	1.988	8	2015	1			1
53	RUS	Russ, David C.; Thomas, Jonathan M. D.; Miller, Q. Sean; Berson, R. Eric	Predicting Power for a Scaled-up Non-Newtonian Biomass Slurry	Chemical Engineering & Technology	2.385	19	2015	1			1
54	SCH	Schneider, Joseph Devin; Rebolledo-Mendez, Jovan David; McNamara, Shamus	A grayscale pneumatic micro-valve for use in a reconfigurable tactile tablet for vision-impaired individuals	Journal of Micromechanics and Microengineering	1.768	1	2015	1			1
55	SHA	Shah, N., and F. P. Zamborini	Surfactant-Assisted Voltage-Driven Silver Nanoparticle Chain Formation across Microelectrode Gaps in Air	Acs Nano 9, no. 10 (Oct 2015): 10278-86	13.334	7	2015	1			1
56	SHA	Shakeri, Mostafa; Soltanzadeh, Maryam; Berson, R. Eric; Sharp, M. Keith	Efficiency of Solar Electricity Production With Long-Term Storage	Journal of Solar Energy Engineering-Transactions of the Asme	1.571	4	2015	1			1
57	SHE	Shen, L.; Jovein, H. B.; Sun, Z. H.; Wang, Q.; Li, W. M.	Testing dynamic segregation of self-consolidating concrete	Construction and Building Materials	2.421	25	2015	1			1
58	SPR	Springer, Z; Sharp, MK	THE POTENTIAL OF NIGHT SKY RADIATION FOR HUMIDITY CONTROL	PROCEEDINGS OF THE ASME 9TH INTERNATIONAL CONFERENCE ON ENERGY SUSTAINABILITY, 2015, VOL 1	N/A	8	2015	1			1
59	STE	M. Stekiel, R. Przenioslo, I. Sosnowska, A. Fitch, J. Jasinski, J. Lussier, M. Bieringer	Lack of a threefold rotation axis in α -Fe ₂ O ₃ and α -Cr ₂ O ₃ crystals	Acta Cryst. B71, 203-208 (2015).	2.892	17	2015			1	1
60	TRA	Tradal, Hiren V.; Vendra, Venkat; Tinney, Joseph P.; Yuan, Fangping; Jackson, Douglas J.; Walsh, Kevin M.; Keller, Bradley B.	Implantable Thin-film Porous Microelectrode Array (P-MEA) for Electrical Stimulation of Engineered Cardiac Tissues	Biochip Journal	1.211	4	2015	1			1
61	VEN	V. K. Vendra, T. Q. Nguyena, A. K. Thapa, J. B. Jasinski, M. K. Sunkara	Scalable Synthesis and Surface Stabilization of Li ₂ MnO ₃ NWS as High Rate Cathode Materials in Li-Ion Batteries	RSC Adv., 2015,5, 36906-36912	3.289	9	2015		1		1
62	WAL	Walczak, K., Chen, Y., Karp, C., Beeman, J., Shaner, M., Spurgeon, J., Sharp, I., Amashukeli, X., West, W., Jin, J., Lewis, N., and Xiang, C.	Modeling, Simulation, and Fabrication of a Fully Integrated, Acid-stable, Scalable Solar-driven Water-splitting System	ChemSusChem, 2015, 8 (3), 544-551	7.116	87	2015			1	1
63	XIE	Xie, Yizhou; Teunis, Meghan B.; Pandit, Bill; Sardar, Rajesh; Liu, Jinjun	Molecule-like CdSe Nanoclusters Passivated with Strongly Interacting Ligands: Energy Level Alignment and Photoinduced Ultrafast Charge Transfer Processes	Journal of Physical Chemistry C	4.509	26	2015	1			1
64	YAN	L. Yang, K. Tate, J. Jasinski, M. Carreon	Decarboxylation of Oleic Acid to heptadecane Over Pt-supported zeolite 5A beads	ACS Catalysis 5, 6497-6502 (2015).	9.307	66	2015			1	1
65	YAN	Yang, Li; Harrysson, Ola A.; West, Harvey A., II; Cormier, Denis R.; Park, Chun; Peters, Kara	Low-energy drop weight performance of cellular sandwich panels	Rapid Prototyping Journal	2.038	11	2015	1			1
66	YAN	Yang, Li; Harrysson, Ola; Cormier, Denis; West, Harvey; Gong, Hajun; Stucker, Brent	Additive Manufacturing of Metal Cellular Structures: Design and Fabrication	Jom	1.798	89	2015	1			1
67	YAN	Yang, Li; Harrysson, Ola; West, Harvey; Cormier, Denis	Mechanical properties of 3D re-entrant honeycomb auxetic structures realized via additive manufacturing	International Journal of Solids and Structures	2.581	315	2015	1			1
68	YOU	Young, John C.; Boyd, Darren; Gedney, Stephen D.; Suzuki, Takehito; Liu, Jinjun	A DGFETD Port Formulation for Photoconductive Antenna Analysis	Ieee Antennas and Wireless Propagation Letters	3.073	6	2015	1			1
69	ZHA	R. Zhao, R. Jayasingha, A. Sherehiy, R. Dharmasena, M. Akhtar, J. Jasinski, S.-Y. Wu, V. Henner, G. U. Sumanasekera,	In-situ Transport Measurements and Band Gap Formation of Fluorinated Graphene	J. Phys. Chem. C 119, 20150-20155 (2015)	4.509	17	2015		1		1
70	ZHO	Zhou, Y.; Gao, J.; Sun, Z. H.; Qu, W. J.	A fundamental study on compressive strength, static and dynamic elastic moduli of young concrete	Construction and Building Materials	2.421	47	2015	1			1

ZHU 71	Zhu, Li; McNamara, Shamus	Low Power Tunneling Current Strain Sensor Using MOS Capacitors	Journal of Microelectromechanical Systems	2.657	9	2015	1	1