

University of Louisville
Conn Center for Renewable Energy Research
Impact Reporting: Publications 2012
Rev. 06/2024, WoS by AM

2012		PUBLICATIONS BY YEAR	CONN CENTER STAFF & ASSOCIATED FACULTY	6.562	3141	32	18	50	7.28	2095	5.68	1046	
#	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	ADU	Kofi W. Adu, Martin D. Williams, Molly Reber, Ruwantha Jayasingha, Humberto R. Gutierrez, and Gamini U. Sumanasekera	Probing Phonons in Nonpolar Semiconducting Nanowires with Raman Spectroscopy	Journal of Nanotechnology, Volume 2012, Article ID 264198, 18 page	4.2	13		1	1				
2	ALB	Albanese, Michael V.; Robinson, Brian S.; Brehob, Ellen G.; Sharp, M. Keith	Simulated and experimental performance of a heat pipe assisted solar wall	Solar Energy	6.7	52	1		1				
3	ALP	B. W. Alphenaar, T. Bansal, A. D. Mohite, H. M. Shah, C. Galande, A. Srivastava, J. B. Jasinski, P. M. Ajayan	Experimental Determination of the Electronic Density of States for Graphene Oxide	<i>ECSS Trans.</i> 2012 45(3): 31-39		3	1		1				
4	BAN	Bansal, Tanesh; Mohite, Aditya D.; Shah, Hemant M.; Galande, Charudatta; Srivastava, Anchal; Jasinski, Jacek B.; Ajayan, Pulickel M.; Alphenaar, Bruce W.	New insights into the density of states of graphene oxide using capacitive photocurrent spectroscopy	Carbon	10.9	34	1		1				
5	BER	Berry, S. M., S. Pabba, R. W. Cohn, and R. S. Keynton	Direct-Write Drawing of Carbon Nanotube/Polymer Composite Microfibers	<i>Journal of Nanomaterials</i>	3.791	2	1		1				
6	BER	Berry, S. M., T. J. Roussel, S. D. Cambron, R. W. Cohn, and R. S. Keynton	Fabrication of Suspended Electrokinetic Microchannels from Directly Written Sacrificial Polymer Fibers	<i>Microfluidics and Nanofluidics</i> 13, no. 3 (Sep 2012): 451-59	2.8	8	1		1				
7	BRO	Broering, Timothy M.; Lian, Yong-Sheng	The effect of phase angle and wing spacing on tandem flapping wings	<i>Acta Mechanica Sinica</i>	3.5	100	1		1				
8	BRO	Broering, Timothy M.; Lian, Yongsheng; Henshaw, William	Numerical Investigation of Energy Extraction in a Tandem Flapping Wing Configuration	<i>Aiaa Journal</i>	2.5	92	1		1				
9	BYA	Byard, Courtney L.; Han, Xue; Mendes, Sergio B.	Angle-Multiplexed Waveguide Resonance of High Sensitivity and Its Application to Nanosecond Dynamics of Molecular Assemblies	<i>Analytical Chemistry</i>	7.4	6	1		1				
10	CHE	Chernomordik, B. D., H. B. Russell, U. Cvelbar, J. B. Jasinski, V. Kumar, T. Deutsch, and M. K. Sunkara	Photoelectrochemical Activity of as-Grown, Alpha-Fe2o3 Nanowire Array Electrodes for Water Splitting	<i>Nanotechnology</i> 23, no. 19 (May 17 2012)	3.5	98		1	1				
11	CUI	Cui, Jinlan; Mashuta, Mark S.; Grapperhaus, Craig A.; Buchanan, Robert M.	Synthesis, structure, and solution properties of bio-inspired iron complexes with functionalized imidazole donors	Abstracts of Papers of the American Chemical Society	11.486	0	1		1				
12	CVE	Cvelbar, U., Z. Q. Chen, I. Levchenko, R. M. Sheetz, J. B. Jasinski, M. Menon, M. K. Sunkara, and K. Ostrikov	Sub-Oxide-to-Metallic, Uniformly-Nanoporous Crystalline Nanowires by Plasma Oxidation and Electron Reduction	<i>Chemical Communications</i> 48, no. 90 (2012): 11070-72	4.9	16		1	1				
13	GUN	Nanda Gunawardhana, Gum-Jae Park, Arjun Kumar Thapa, Nikolay Dimov, Manickam Sasidharan, Hiroyoshi Nakamura, Masaki Yoshio	Performances of a Graphite (KS-6)/MoO3 Energy Storing System	<i>Journal of Power Sources</i> , 203, 257-261	9.2	27		1	1				
14	HAN	Han, Xue; Mendes, Sergio B.	Spectroscopic studies on ultra-thin films of indium tin oxide under electro-chemical modulation	<i>Physical Chemistry of Interfaces and Nanomaterials Xi</i>		0	1		1				
15	HAR	Hardas, Sarita S.; Sultana, Ruksana; Warriar, Govind; Dan, Mo; Florence, Rebecca L.; Wu, Peng; Grulke, Eric A.; Tseng, Michael T.; Unrine, Jason M.; Graham, Uschi M.; Yokel, Robert A.; Butterfield, D. Allan	Rat brain pro-oxidant effects of peripherally administered 5 nm ceria 30 days after exposure	<i>Neurotoxicology</i>	3.4	75	1		1				
16	HOR	Hord, Kyle; Lian, Yongsheng	Numerical Investigation of the Aerodynamic and Structural Characteristics of a Corrugated Airfoil	<i>Journal of Aircraft</i>	2.2	33	1		1				
17	IBA	Ibanez, Francisco J.; Zamborini, Francis P.	Chemiresistive Sensing with Chemically Modified Metal and Alloy Nanoparticles	<i>Small</i>	13.3	143	1		1				
18	IDA	Shintaro Ida, Arjun Kumar Thapa, Yuiko Hidaka, Hidehisha Hagiwara, Tatsumi Ishihara	Manganese Oxide with a Card-house Structure Reassembled from Nanosheet for Rechargeable Li-air Batteries	<i>Journal of Power Sources</i> , 203,159-164	9.2	68		1	1				
19	ISH	Tatsumi Ishihara, Arjun Kumar Thapa, Yuiko Hidaka, Shintaro Ida	Rechargeable Lithium-Air Battery Using Mesoporous Co3O4 Modified with Pd for Air Electrode	<i>Electrochemistry</i> , 80 (2012) 731-733	2.5	22		1	1				
20	JOS	Joseph, George; Foreman, J. Chris; McIntyre, Michael L.	A Variable Duty Cycle Maximum Power Point Tracking Algorithm for Wind Energy Conversion Systems	2012 IEEE Power Electronics and Machines in Wind Applications (Pemwa)		0	1		1				

University of Louisville
 Conn Center for Renewable Energy Research
 Impact Reporting: Publications 2012
 Rev. 06/2024, WoS by AM

21	LAP	LaPierre, R., and M. Sunkara	Nanowires for Energy	<i>Nanotechnology</i> 23, no. 19 (May 17 2012)	3.5	9		1	1
22	LES	Lesiv, Rostyslav; Prater, Glen; Osborne, Gary; Lamb, David; Castanier, Matthew	Derivation of Rigid Body Analysis Models from Vehicle Architecture Abstractions	Proceedings of the Asme International Mechanical Engineering Congress and Exposition, 2011, Vol 9		0	1		1
23	MAC	Macias, E. E., P. Ratnasamy, and M. A. Carreon	Catalytic Activity of Metal Organic Framework Cu-3(Btc)(2) in the Cycloaddition of Co2 to Epichlorohydrin Reaction	<i>Catalysis Today</i> 198, no. 1 (Dec 30 2012): 215-18	5.3	119	1		1
24	MAN	Manadan, Arvin Joe; McIntyre, Michael L.; Dawson, Darren M.	Backstepping Controlled Rectifier for Maximum Power Point Tracking in Photovoltaic Arrays	2012 Ieee 34th International Telecommunications Energy Conference (Intelec)		1	1		1
25	MAS	Masitas, R. A., and F. P. Zamborini	Oxidation of Highly Unstable < 4 Nm Diameter Gold Nanoparticles 850 Mv Negative of the Bulk Oxidation Potential	<i>Journal of the American Chemical Society</i> 134, no. 11 (Mar 21 2012): 5014-17	15	94	1		1
26	MED	Meduri, P., E. Clark, J. H. Kim, E. Dayalan, G. U. Sumanasekera, and M. K. Sunkara	Moo3-X Nanowire Arrays as Stable and High-Capacity Anodes for Lithium Ion Batteries	<i>Nano Letters</i> 12, no. 4 (Apr 2012): 1784-88	10.8	294		1	1
27	MIL	Miles, Stephanie D.; McNamara, Shamus; Pharas, Kunal	Ten Stage Knudsen Gas Pump	Proceedings of the Asme 10th International Conference on Nanochannels, Microchannels and Minichannels 2012		2	1		1
28	MIR	Miralda, C. M., E. E. Macias, M. Q. Zhu, P. Ratnasamy, and M. A. Carreon	Zeolitic Imidazole Framework-8 Catalysts in the Conversion of Co2 to Chloropropene Carbonate	<i>Acs Catalysis</i> 2, no. 1 (Jan 2012): 180-83	12.9	465	1		1
29	MOR	Moreno, M., L. N. Kissell, J. B. Jasinski, and F. P. Zamborini	Selectivity and Reactivity of Alkylamine- and Alkanethiolate-Stabilized Pd and PdAg Nanoparticles for Hydrogenation and Isomerization of Allyl Alcohol	<i>Acs Catalysis</i> 2, no. 12 (Dec 2012): 2602-13	12.9	55	1		1
30	OSB	Osborne, Gary; Prater, Glen; Lesiv, Rostyslav; Lamb, David; Castanier, Matthew	An Interactive Design Space Supporting Development of Vehicle Architecture Concept Models	Proceedings of the Asme International Mechanical Engineering Congress and Exposition, 2011, Vol 9		0	1		1
31	PEN	Pendyala, C., J. B. Jasinski, J. H. Kim, V. K. Vendra, S. Lisenkov, M. Menon, and M. K. Sunkara	Nanowires as Semi-Rigid Substrates for Growth of Thick, Inxga1-Xn (X > 0.4) Epi-Layers without Phase Segregation for Photoelectrochemical Water Splitting	<i>Nanoscale</i> 4, no. 20 (2012): 6269-75	6.7	25		1	1
32	PET	Petzold, F. G., J. Jasinski, E. L. Clark, J. H. Kim, J. Absher, H. Toufar, and M. K. Sunkara	Nickel Supported on Zinc Oxide Nanowires as Advanced Hydrodesulfurization Catalysts	<i>Catalysis Today</i> 198, no. 1 (Dec 30 2012): 219-27	5.3	54		1	1
33	RED	Reddy, G. K., S. J. Kim, J. H. Dong, P. G. Smirniotis, and J. B. Jasinski	Long-Term Wgs Stability of Fe/Ce and Fe/Ce/Cr Catalysts at High and Low Steam to Co Ratios-Xps and Mossbauer Spectroscopic Study	<i>Applied Catalysis a-General</i> 415 (Feb 16 2012): 101-10	5.5	43		1	1
34	ROB	Robinson, Brian S.; Sharp, M. Keith	A Reconfigurable Passive Solar Test Facility	Proceedings of the Asme 6th International Conference on Energy Sustainability - 2012, Pts a and B		0	1		1
35	ROB	Robinson, Brian S.; Sharp, M. Keith	Reducing Unwanted Gains during the Cooling Season from a Heat Pipe Augmented Passive Solar Heating System	Proceedings of the Asme 6th International Conference on Energy Sustainability - 2012, Pts a and B		0	1		1
36	ROB	Robinson, Brian S.; Sharp, M. Keith	Space Cooling Potentials for Ambient Energy Sources across the Us	Proceedings of the Asme 5th International Conference on Energy Sustainability 2011, Pts a-C		0	1		1
37	SID	Anton N. Sidorov, Kurt Gaskill, Marco Buongiorno Nardelli, Joseph L. Tedesco, Rachel L. Myers-Ward, Charles R. Eddy Jr., Thushari Jayasekera, Ki Wook Kim, Ruwantha Jayasingha, Andriy Sherehly, Robert Stallard, and Gamin U. Sumanasekera	Charge Transfer Equilibria in Ambient-Exposed Epitaxial Graphene on (0001)over-Bar) 6 H-Sic	<i>Journal of Applied Physics</i> 111, no. 11 (Jun 1 2012)	3.2	42		1	1
38	SID	Sidorov, A. N., G. W. Slawinski, A. H. Jayatissa, F. P. Zamborini, and G. U. Sumanasekera	A Surface-Enhanced Raman Spectroscopy Study of Thin Graphene Sheets Functionalized with Gold and Silver Nanostructures by Seed-Mediated Growth	<i>Carbon</i> 50, no. 2 (Feb 2012): 699-705	10.9	96		1	1
39	THA	Thapa, A. K., T. H. Shin, S. Ida, G. U. Sumanasekera, M. K. Sunkara, and T. Ishihara	Gold-Palladium Nanoparticles Supported by Mesoporous Beta-Mno2 Air Electrode for Rechargeable Li-Air Battery	<i>Journal of Power Sources</i> 220 (Dec 15 2012): 211-16	9.2	61		1	1
40	TSE	Tseng, Michael T.; Lu, Xiaoqin; Duan, Xiaoxian; Hardas, Santa S.; Sultana, Rukhsana; Wu, Peng; Unrine, Jason M.; Graham, Uschi; Butterfield, D. Allan; Grulke, Eric A.; Yokel, Robert A.	Alteration of hepatic structure and oxidative stress induced by intravenous nanoceria	<i>Toxicology and Applied Pharmacology</i>	3.8	126	1		1
41	TSY	Tsyusko, Olga V.; Unrine, Jason M.; Spurgeon, David; Blalock, Eric; Starnes, Daniel; Tseng, Michael; Joice, Greg; Bertsch, Paul M.	Toxicogenomic Responses of the Model Organism Caenorhabditis elegans to Gold Nanoparticles	<i>Environmental Science & Technology</i>	11.4	159	1		1
42	VEN	Vendra, Venkat Kalyan; Absher, Jason; Ellis, Samuel R.; Amos, Delaina A.; Druffel, Thad; Sunkara, Mahendra K.	Photoanode Area Dependent Efficiency and Recombination Effects in Dye-Sensitized Solar Cells	<i>Journal of the Electrochemical Society</i>	3.9	10		1	1

University of Louisville
 Conn Center for Renewable Energy Research
 Impact Reporting: Publications 2012
 Rev. 06/2024, WoS by AM

43	WU	Wu, L., J. Jasinski, and S. Krishnan	Carboxybetaine, Sulfobetaine, and Cationic Block Copolymer Coatings: A Comparison of the Surface Properties and Antibiofouling Behavior	<i>Journal of Applied Polymer Science</i> 124, no. 3 (May 5 2012): 2154-70	0.59	84		1	1
44	YE	Ye, Zhuoliang; Hatfield, Kristen M.; Berson, R. Eric	Deactivation of individual cellulase components	Bioresource Technology	11.4	44	1		1
45	YOK	Yokel, Robert A.; Au, Tu C.; MacPhail, Robert; Hardas, Santa S.; Butterfield, D. Allan; Sultana, Rukhsana; Goodman, Michael; Tseng, Michael T.; Dan, Mo; Haghaziar, Hamed; Urnine, Jason M.; Graham, Uschi M.; Wu, Peng; Grulke, Eric A.	Distribution, Elimination, and Biopersistence to 90 Days of a Systemically Introduced 30 nm Ceria-Engineered Nanomaterial in Rats	Toxicological Sciences	3.8	188	1		1
46	ZAM	Zamborini, Francis P.; Bao, Lanlan; Dasari, Radhika	Nanoparticles in Measurement Science	Analytical Chemistry	7.4	257	1		1
47	ZHA	G. Zhang, J. B. Jasinski, J. L. Howell, D. Patel, D. P. Stephens, A. M. Gobin	Tunability and Stability of Gold Nanoparticles Obtained from Chloroauric Acid and Sodium Thiosulfate Reaction	<i>Nanoscale Research Letters</i> 7 (1), 337	5.4	42		1	1
48	ZHA	Zhang, G. D., X. H. Sun, J. Jasinski, D. Patel, and A. M. Gobin	Gold/Chitosan Nanocomposites with Specific near Infrared Absorption for Photothermal Therapy Applications	<i>Journal of Nanomaterials</i>	3.791	42		1	1
49	ZHA	Zhang, Muheng; Lian, Yongsheng; Harnett, Cindy; Brehob, Ellen	Investigation of Hydrodynamic Focusing in a Microfluidic Coulter Counter Device	<i>Journal of Biomechanical Engineering-Transactions of the Asme</i>	1.7	6	1		1
50	ZHU	Zhu, M. Q., J. B. Jasinski, and M. A. Carreon	Growth of Zeolitic Imidazolate Framework-8 Crystals from the Solid-Liquid Interface	<i>Journal of Materials Chemistry</i> 22, no. 16 (2012): 7684-86	6.626	31	1		1

PERSONNEL 2012	ASSOCIATED FACULTY	DEPARTMENT, COLLEGE	39
	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
	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
	Buchanan, Robert	Chemistry, College of Arts & Sciences	1
	Burns, Chris	Chemistry, College of Arts & Sciences	1
	Cohn, Robert	Electrical & Computer Engineering, JB Speed School of Engineering	1
	Datta, Somnath	Bioinformatics & Biostatistics, School of Public Health & Information Sciences	1
	Elmaghraby, Adel	Computer Science & Engineering, JB Speed School of Engineering	1
	French, Mark	Civil & Environmental Engineering, JB Speed School of Engineering	1
	Fu, Xiao-An "Sean"	Chemical Engineering, JB Speed School of Engineering	1
	Graham, James	Electrical & Computer Engineering, JB Speed School of Engineering	1
	Hammond, Gerald GB	Chemistry, College of Arts & Sciences	1
	Harnett, Cindy	Electrical & Computer Engineering, JB Speed School of Engineering	1
	Jayanthi, Chakram	Physics & Astronomy, College of Arts & Sciences	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
	Park, Sam	Mechanical Engineering, JB Speed School of Engineering	1
	Prater, Glen	Mechanical Engineering, JB Speed School of Engineering	1
	Rockaway, Thomas	Civil & Environmental Engineering, JB Speed School of Engineering	1
	Running, Mark	Biology, College of Arts & Sciences	1
	Schultz, David	Biology, College of Arts & Sciences	1

University of Louisville
 Conn Center for Renewable Energy Research
 Impact Reporting: Publications 2012
 Rev. 06/2024, WoS by AM

Sharp, Keith	Mechanical Engineering, JB Speed School of Engineering	1
Starr, Thomas	Chemical Engineering, JB Speed School of Engineering	1
Stucker, Brent	Industrial 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
Willing, Gerold	Chemical Engineering, JB Speed School of Engineering	1
Wittebort, Richard	Chemistry, College of Arts & Sciences	1
Zamborini, Frank	Chemistry, College of Arts & Sciences	1
CENTER STAFF		20
Chou, Joshua	Administrative Assistant	1
Deshmane, Chinmay	Postdoctoral Associate	1
Dharmadasa, Ruvini	Postdoctoral Associate	1
Druffel, Thad	Sr. Research Scientist/Engineer	1
Gupta, Mayank	Postdoctoral Associate	1
Gutu, Timothy	Postdoctoral Associate	1
Jasinski, Jacek	Sr. Research Scientist/Engineer	1
Kim, Jeong	Research Associate	1
Lupitskyy, Robert	Postdoctoral Associate	1
Macias, Eugenia	Research Associate	1
Marsh, Andrew	Assistant Director/Program Officer	1
McCoy, Rodica	Research Manager	1
Nickelson, Kelly	Business Manager	1
O'Toole, Martin	Postdoctoral Associate	1
Pandit, Bill	Postdoctoral Associate	1
Satyavolu, Jagannadh	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	Postdoctoral Associate	1
Turner, Matthew	Postdoctoral Associate	1
VISITING SCHOLARS		0