

University of Louisville
Conn Center for Renewable Energy Research

Impact Reporting: Publications 2010

Rev. 06/2024, WoS by AM

2010		PUBLICATIONS BY YEAR	CONN CENTER STAFF & ASSOCIATED FACULTY	5.654	3298	24	8	32	5.34	1950	3.53	1348	
#	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	ABD	Abdelmoti, Lina G.; Zamborini, Francis P.	Potential-Controlled Electrochemical Seed-Mediated Growth of Gold Nanorods Directly on Electrode Surfaces	Langmuir	3.9	46	1		1				
2	AEB	Aebersold J, Julia; Walsh, Kevin; Beggans, Michael	Utilization of Direct Write Lithography to Develop Ultra High Aspect Ratio (> 100:1) DRIE Silicon Pillars	2010 18th Biennial University/Government/Industry Micro-Nano Symposium		0		1	1				
3	ASL	Aslan, Mustafa M.; Webster, Nathan A.; Byard, Courtney L.; Pereira, Marcelo B.; Hayes, Colin M.; Wiederkehr, Rodrigo S.; Mendes, Sergio B.	Low-loss optical waveguides for the near ultra-violet and visible spectral regions with Al2O3 thin films from atomic layer deposition	Thin Solid Films	2.1	86	1		1				
4	BEE	Beeram, Srinivas R.; Zamborini, Francis P.	Purification of Gold Nanoplates Grown Directly on Surfaces for Enhanced Localized Surface Plasmon Resonance Biosensing	Acs Nano	17.1	95	1		1				
5	BOY	Boyoglu, Seyhan; Vig, Komal; Pfendt, Adam; Pillai, Shreekumar; Willing, Gerold A.; Singh, Shree R.	Analysis of Gold Nanoparticles Effect on RSV Using AFM	Biophysical Journal	3.4	0	1		1				
6	CAR	Carroll, Susan; Baldwin, Richard P.	Self-Calibrating Microfabricated Iridium Oxide pH Electrode Array for Remote Monitoring	Analytical Chemistry	7.4	63	1		1				
7	CHE	Chen, Z. B., T. F. Jaramillo, T. G. Deusch, A. Kleiman-Shwarstein, A. J. Forman, N. Gaillard, R. Garland, et al.	Accelerating Materials Development for Photoelectrochemical Hydrogen Production: Standards for Methods, Definitions, and Reporting Protocols.	Journal of Materials Research 25, no. 1 (Jan 2010): 3-16	2.7	1131		1	1				
8	DES	Desai, S. C., A. H. Willitsford, G. U. Sumanasekera, M. Yu, W. Q. Tian, C. S. Jayanthi, and S. Y. Wu	Hypergolic Fuel Detection Using Individual Single Walled Carbon Nanotube Networks	Journal of Applied Physics 107, no. 11 (Jun 1 2010)	3.2	11	1		1				
9	DES	Deshmane, C. A., J. B. Jasinski, and M. A. Carreon	Microwave-Assisted Synthesis of Nanocrystalline Mesoporous Gallium Oxide.	Microporous and Mesoporous Materials 130, no. 1-3 (May 2010): 97-102	5.2	52	1		1				
10	DES	Deshmane, C. A., J. B. Jasinski, P. Ratnasamy, and M. A. Carreon	Synthesis and Catalytic Properties of Mesoporous, Bifunctional, Gallium-Niobium Mixed Oxides	Chemical Communications 46, no. 34 (2010): 6347-49	4.9	7	1		1				
11	DRU	Druffel, T., M. Lattis, M. Spencer, and O. Buazza	Elastic Behaviour of a Nanocomposite Thin Film Undergoing Significant Strains	Nanotechnology 21, no. 10 (Mar 12 2010)	3.5	3		1	1				
12	DUN	Dunaway, Kyle W.; Dasari, Rajesh K.; Bennett, Nicholas G.; Berson, R. Eric	Characterization of changes in viscosity and insoluble solids content during enzymatic saccharification of pretreated corn stover slurries	Bioresource Technology	11.4	62	1		1				
13	GOW	Gowrishetty, Usha R.; Walsh, Kevin M.; Berfield, Thomas A.	Fabrication of polyimide bi-stable diaphragms using oxide compressive stresses for the field of 'Buckle MEMS'	Journal of Micromechanics and Microengineering	2.3	14	1		1				
14	GOW	Gowrishetty, Usha R.; Walsh, Kevin M.; Jackson, Doug	No-power Vacuum Actuated Bi-stable MEMS SPDT Switch	2010 Ieee Sensors Conference		4	1		1				
15	HAR	Hardas, Sarita S.; Butterfield, David Allan; Sultana, Rukhsana; Tseng, Michael T.; Dan, Mo; Florence, Rebecca L.; Unrine, Jason M.; Graham, Uschi M.; Wu, Peng; Grulke, Eric A.; Yokel, Robert A.	Brain Distribution and Toxicological Evaluation of a Systemically Delivered Engineered Nanoscale Ceria	Toxicological Sciences	3.8	165	1		1				
16	IVA	Ivanova, Olga S.; Zamborini, Francis P.	Size-Dependent Electrochemical Oxidation of Silver Nanoparticles	Journal of the American Chemical Society	15	343	1		1				
17	MCK	McKenna, Curt; Walsh, Kevin; Crain, Mark; Lake, Joseph	Maskless Direct Write Grayscale Lithography for MEMS Applications	2010 18th Biennial University/Government/Industry Micro-Nano Symposium		3	1		1				
18	MED	Meduri, P., J. H. Kim, H. B. Russell, J. Jasinski, G. U. Sumanasekera, and M. K. Sunkara	Thin-Walled Carbon Microtubes as High-Capacity and High-Rate Anodes in Lithium-Ion Batteries.	Journal of Physical Chemistry C 114, no. 23 (Jun 17 2010): 10621-27	3.7	33		1	1				

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19	NAG	Nagisetty, Raja M.; Rockaway, Thomas D.; Willing, Gerold A.	Aqueous Chloramine Diffusion into Elastomers	Journal of Applied Polymer Science	3	3	1		1
20	OKA	Okail, Hussein O.; Shing, P. Benson; Klingner, Richard E.; McGinley, William M.	Performance of clay masonry veneer in wood-stud walls subjected to out-of-plane seismic loads	Earthquake Engineering & Structural Dynamics	4.5	11	1		1
21	OSB	Osborne, Gary M.; Prater, Glen, Jr.	Finite element concept modelling methodologies for pickup truck boxes	International Journal of Heavy Vehicle Systems	0.6	12	1		1
22	OST	Ostrikov, K., I. Levchenko, U. Cvelbar, M. Sunkara, and M. Mozetic	From Nucleation to Nanowires: A Single-Step Process in Reactive Plasmas.	Nanoscale 2, no. 10 (2010): 2012-27	6.7	120		1	1
23	PEN	Pendyala, C., S. Vaddiraju, J. H. Kim, J. Jacinski, Z. Q. Chen, and M. K. Sunkara	Self-Nucleation and Growth of Group Iii-Antimonide Nanowires	Semiconductor Science and Technology 25, no. 2 (Feb 2010)	1.9	15		1	1
24	PHA	Pharas, Kunal; McNamara, Shamus	Bi-Directional Gas Pump Driven by a Thermoelectric Material	Mems 2010: 23rd IEEE International Conference on Micro Electro Mechanical Systems, Technical Digest		2	1		1
25	PHA	Pharas, Kunal; McNamara, Shamus	Knudsen pump driven by a thermoelectric material	Journal of Micromechanics and Microengineering	2.3	41	1		1
26	PRA	Prater, Glen, Jr.; Shahhosseini, Ali M.; Osborne, Gary M.; Zhang, Shengyong	Simulation studies for determining the response characteristics of a hydraulic hybrid powertrain subframe	International Journal of Heavy Vehicle Systems	0.6	2	1		1
27	ROB	Robinson, Brian S.; Albanese, Michael V.; Chmielewski, Nick; Brehob, Ellen G.; Sharp, M. Keith	Heat Pipe Augmented Solar Heating System	Es2010: Proceedings of ASME 4th International Conference on Energy Sustainability, Vol 2		1	1		1
28	SID	Sidorov, A. N., T. Bansal, P. J. Ouseph, and G. Sumanasekera	Graphene Nanoribbons Exfoliated from Graphite Surface Dislocation Bands by Electrostatic Force	Nanotechnology 21, no. 19 (May 14 2010)	3.5	11		1	1
29	SUM	Sumanasekera, G. U., G. Chen, K. Takai, J. Joly, N. Kobayashi, T. Enoki, and P. C. Eklund	Charge Transfer and Weak Chemisorption of Oxygen Molecules in Nanoporous Carbon Consisting of a Disordered Network of Nanographene Sheets	Journal of Physics-Condensed Matter 22, no. 33 (Aug 25 2010)	2.7	35		1	1
30	VEN	Venna, S. R., J. B. Jasinski, and M. A. Carreon	Structural Evolution of Zeolitic Imidazolate Framework-8	Journal of the American Chemical Society 132, no. 51 (Dec 29 2010): 18030-33	15	751	1		1
31	WAL	Walsh, Kevin M.; Gowrishetty, Usha R.	No-Power Mems Devices Using Buckled Diaphragms and Engineered Stress	2010 18th Biennial University/Government/Industry Micro-Nano Symposium		0	1		1
32	WAN	Wang, W. B., J. Jasinski, G. B. Hammond, and B. Xu	Fluorine-Enabled Cationic Gold Catalysis: Functionalized Hydration of Alkynes	Angewandte Chemie-International Edition 49, no. 40 (2010): 7247-52	16.6	176	1		1

PERSONNEL 2010	ASSOCIATED FACULTY	DEPARTMENT, COLLEGE	32		
	Alexander, Suraj	Industrial Engineering, JB Speed School of Engineering			1
	Alphenaar, Bruce	Electrical & Computer 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
	Carreon, Moises	Chemical Engineering, JB Speed School of Engineering			1
	Cohn, Robert	Electrical & Computer Engineering, JB Speed School of Engineering			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

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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
McGinley, Mark	Civil & Environmental 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
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
Rypkema, Heather	Chemistry, College of Arts & Sciences	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
Stucker, Brent	Industrial Engineering, JB Speed School of Engineering	1
Walsh, Kevin	Electrical & Computer Engineering, JB Speed School of Engineering	1
Willing, Gerold	Chemical Engineering, JB Speed School of Engineering	1
Zamborini, Frank	Chemistry, College of Arts & Sciences	1
CENTER STAFF		10
Aebersold, Julia	Research Associate	1
Jasinski, Jacek	Sr. Research Scientist/Engineer	1
Kim, Jeong	Research Associate	1
Macias, Eugenia	Research Associate	1
Marsh, Andrew	Assistant Director	1
McCoy, Rodica	Research Manager	1
Nickelson, Kelly	Business Manager	1
Ratnasamy, Paul	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
VISITING SCHOLARS		0