University of Louisville
Conn Center for Renewable Energy Research
Impact Reporting: Publications 2011
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	2011	PUBLICATIONS BY YEAR	CONN CENTER STAFF & ASSOCIATED FACULTY		6.511	1984	17	12	29	4.84	413	8.60	1571
#	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	BIS	Biswas, Souvik; Gordon, Laura E.; Clark, Geoffrey J.; Nantz, Michael H.	Click assembly of magnetic nanovectors for gene delivery	Biomaterials	14	26	1		1				
2	BRO	Brockway, L., C. Pendyala, J. Jasinski, M. K. Sunkara, and S. Vaddiraju	A Postsynthesis Decomposition Strategy for Group Iii-Nitride Quantum Wires	*Crystal Growth & Design* 11, no. 10 (Oct 2011): 4559-64	3.8	19		1	1				
3	CHE	Chen, Z. B., D. Cummins, B. N. Reinecke, E. Clark, M. K. Sunkara, and T. F. Jaramillo	Core-Shell Moo3-Mos2 Nanowires for Hydrogen Evolution: A Functional Design for Electrocatalytic Materials	*Nano Letters* 11, no. 10 (Oct 2011): 4168-75	10.8	1218		1	1				
4	DAS	Dasari, Rajesh K.; Berson, R. Eric	Validation of Solids Suspension Viscosity Measurements Using Computational Fluid Dynamics	Chemical Engineering & Technology	2.1	2	1		1				
5	DES	Deshmane, C. A., J. B. Jasinski, P. Ratnasamy, and M. A. Carreon	Epoxidation of Cyclooctene over Mesoporous Ga, Ga-Nb, and Ga-Mo Oxide Catalysts	*Catalysis Communications* 15, no. 1 (Nov 15 2011): 46-51	3.7	16	1		1				
6	DUM	Dumpala, S., J. B. Jasinski, G. U. Sumanasekera, and M. K. Sunkara	Large Area Synthesis of Conical Carbon Nanotube Arrays on Graphite and Tungsten Foil Substrates	*Carbon* 49, no. 8 (Jul 2011): 2725-34	10.9	12		1	1				
7	FAU	Faul, Andre; Turner, Matthew; Naber, John	Implantable Wireless Microsystems for the Measurement of Intraocular Pressure	2011 Ieee 54th International Midwest Symposium on Circuits and Systems (Mwscas)		0	1		1				
8	FU	Fu, Xiao-An; Dunning, Jeremy L.; Mehregany, Mehran; Zorman, Christian A.	Low Stress Polycrystalline SiC Thin Films Suitable for MEMS Applications	Journal of the Electrochemical Society	3.9	16	1		1				
9	FU	Fu, Xiao-An; Okino, Kenji; Mehregany, Mehran	Thermal oxidation of silicon carbide: A comparison of n-type and p-type doped epitaxial layers	Applied Physics Letters	4	6	1		1				
10	HAR	Harnett, Cindy K.; Schueler, Matthew T.; Blumenthal, Nick R.; Hopf, Kristy L.; Fox, Jimmy F.; Pulugurtha, Sruti	Calibration and Field Deployment of Low-Cost Fluid Flow-Rate Sensors Using a Wireless Network	Ieee Transactions on Instrumentation and Measurement	5.6	6	1		1				
11	JAS	Jasinski, J. B.	Comment on "Understanding the Epitaxial Growth of Sextey@Te Core-Shell Nanorods and the Generation of Periodic Defects	*Acs Nano* 5, no. 9 (Sep 2011): 6769-69	17.1	0		1	1				
12	JAS	Jasinski, J. B., S. Dumpala, G. U. Sumanasekera, M. K. Sunkara, and P. J. Ouseph	Observation and Interpretation of Adjacent Moire Patterns of Different Shapes in Bilayer Graphene	*Applied Physics Letters* 99, no. 7 (Aug 15 2011)	4	21		1	1				
13	KUL	Kulkarni, Anand Sunil; Welch, Karla Conn; Harnett, Cindy K.	A review of electricity monitoring and feedback systems	Ieee Southeastcon 2011: Building Global Engineers		12	1		1				
14	KUM	Kumar, V., J. H. Kim, J. B. Jasinski, E. L. Clark, and M. K. Sunkara	Alkali-Assisted, Atmospheric Plasma Production of Titania Nanowire Powders and Arrays	*Crystal Growth & Design* 11, no. 7 (Jul 2011): 2913-19	3.8	32		1	1				
15	LAK	Lake, Joseph H.; Cambron, Scott D.; Walsh, Kevin M.; McNamara, Shamus	Maskless Grayscale Lithography Using a Positive-Tone Photodefinable Polyimide for MEMS Applications	Journal of Microelectromechanical Systems	2.7	18	1		1				
16	MAC	Macias, E. E., C. A. Deshmane, J. B. Jasinski, M. A. Carreon, and P. Ratnasamy	Catalytic Transformations of Methyl Oleate and Biodiesel over Mesoporous Gallium-Niobium Oxides	*Catalysis Communications* 12, no. 7 (Mar 10 2011): 644-50	3.7	13		1	1				
17	MCN	McNamara, Shamus	Development rate of PMMA exposed to synchrotron x-ray radiation for LIGA applications	Journal of Micromechanics and Microengineering	2.3	5	1		1				
18	MED	Meduri, P., E. Clark, E. Dayalan, G. U. Sumanasekera, and M. K. Sunkara	Kinetically Limited De-Lithiation Behavior of Nanoscale Tin-Covered Tin Oxide Nanowires	*Energy & Environmental Science* 4, no. 5 (May 2011): 1695-99	32.5	59		1	1				
19	OKA	Okail, Hussein O.; Shing, P. Benson; McGinley, William M.; Klingner, Richard E.; Jo, Seongwoo; McLean, David I.	Shaking-table tests of a full-scale single-story masonry veneer wood-frame structure	Earthquake Engineering & Structural Dynamics	4.5	14	1		1				
20	PAI	Pai, Rekha S.; Crain, Mark M.; Walsh, Kevin M.	Maskless shaping of gold stud bumps as high aspect ratio microstructures	Microelectronic Engineering	2.3	6	1		1				
21	ROC	Rockaway, Thomas D.; Coomes, Paul A.; Rivard, Joshua; Kornstein, Barry	Residential water use trends in North America	Journal American Water Works Association	0.7	89	1		1				

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22	SAT	Satyarthi, J. K., D. Srinivas, and P. Ratnasamy	Hydrolysis of Vegetable Oils and Fats to Fatty Acids over Solid Acid Catalysts	Applied Catalysis a-General 391, no. 1-2 (Jan 4 2011): 427-35	**5.5**	**113**		1	1
23	SHE	Sheetz, R. M., E. Richter, A. N. Andriotis, S. Lisenkov, C. Pendyala, M. K. Sunkara, and M. Menon	Visible-Light Absorption and Large Band-Gap Bowing of Gan1-Xsbx from First Principles	*Physical Review B* 84, no. 7 (Aug 1 2011)	**3.7**	**32**		1	1
24	SID	Anton N. Sidorov, Andriy Sherehiy, Ruwantha Jayasinghe, Robert Stallard, Daniel K. Benjamin, Qingkai Yu, Zhihong Liu, Wei Wu, Helin Cao, Yong P. Chen, Zhigang Jiang, and Gamini U. Sumanasekera	Thermoelectric Power of Graphene as Surface Charge Doping Indicator	Applied Physics Letters 99, no. 1 (Jul 4 2011)	**4**	**33**		1	1
25	SLA	Slawinski, Grzegorz W.; Ivanova, Olga S.; Zamborini, Francis P.	Twin Plane Decoration of Silver Nanorods with Palladium by Galvanic Exchange at a Controlled Rate	Langmuir	**3.9**	**5**	1		1
26	SUN	Sunkara, M. K., C. Pendyala, D. Cummins, P. Meduri, J. Jasinski, V. Kumar, H. B. Russell, E. L. Clark, and J. H. Kim	Inorganic Nanowires: A Perspective About Their Role in Energy Conversion and Storage Applications	*Journal of Physics D-Applied Physics* 44, no. 17 (May 4 2011)	**3.4**	**19**		1	1
27	YE	Ye, Zhuoliang; Berson, R. Eric	Kinetic modeling of cellulose hydrolysis with first order inactivation of adsorbed cellulase	Bioresource Technology	**11.4**	**60**	1		1
28	YE	Ye, Zhuoliang; Lane, Andrew N.; Willing, Gerold A.; Berson, R. Eric	Scaled-up separation of cellobiohydrolase1 from a cellulase mixture by ion-exchange chromatography	Biotechnology Progress	**2.9**	**7**	1		1
29	ZHU	Zhu, M. Q., S. R. Venna, J. B. Jasinski, and M. A. Carreon	Room-Temperature Synthesis of Zif-8: The Coexistence of Zno Nanoneedles	*Chemistry of Materials* 23, no. 16 (Aug 23 2011): 3590-92	**8.6**	**125**	1		1

PERSONNEL 2011	ASSOCIATED FACULTY	DEPARTMENT, COLLEGE	**36**
	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
	Carreon, Moises	Chemical Engineering, JB Speed School of Engineering	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
	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

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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			14
Chou, Joshua	Research Associate		1
Druffel, Thad	Sr. Research Scientist/Engineer		1
Jasinski, Jacek	Sr. Research Scientist/Engineer		1
Kim, Jeong	Research 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
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
Thapa, Arjun	Postdoctoral Associate		1
Turner, Matthew	Postdoctoral Associate		1

VISITING SCHOLARS			1
Martinez-Garcia, Alejandro	Visiting PhD student Scholar - COLUMBIA		1