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	2017	PUBLICATIONS BY YEAR	CONN CENTER STAFF & ASSOCIATED FACULTY		8.443	2981	64	24	88	9.02	1673	8.79	1308
#	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	ADH	Adhikari, SP Hood, ZD ; Wang, H ; Peng, R ; Krall, A ; Li, H ; Chen, VW ; More, KL ; Wu, ZL ; Geyer, S ; Lachgar, A	Enhanced visible light photocatalytic water reduction from a g-C3N4/SrTa2O6 heterojunction	APPLIED CATALYSIS B-ENVIRONMENTAL	22.1	67	1		1				
2	AJA	Ajayi, BP ; Thapa, AK ; Cvelbar, U ; Jasinski, JB ; Sunkara, MK	Atmospheric plasma spray pyrolysis of lithiated nickel-manganese-cobalt oxides for cathodes in lithium ion batteries	CHEMICAL ENGINEERING SCIENCE	4.7	25		1	1				
3	AKH	Akhtar, M ; Anderson, G ; Zhao, R ; Alruqi, A ; Mroczkowska, JE ; Sumanasekera, G ; Jasinski, JB	Recent advances in synthesis, properties, and applications of phosphorene	NPJ 2D MATERIALS AND APPLICATIONS	9.7	306		1	1				
4	ALL	Allen, SL ; Sharma, JN ; Zamborini, FP	Aggregation-Dependent Oxidation of Metal Nanoparticles	JOURNAL OF THE AMERICAN CHEMICAL SOCIETY	15	59	1		1				
5	AND	Andersson, M ; Handa, S ; Gallou, F ; Reilly, J; Lipshutz, B	A ligand enabling ppm levels of palladium in Suzuki-Miyaura couplings - the density functional theory calculations	ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY	14.357	0	1		1				
6	ANK	Ankireddy, K ; Druffel, T ; Vunnam, S ; Filipic, G ; Dharmadasa, R ; Amos, DA	Seed mediated copper nanoparticle synthesis for fabricating oxidation free interdigitated electrodes using intense pulse light sintering for flexible printed chemical sensors	JOURNAL OF MATERIALS CHEMISTRY C	6.4	21		1	1				
7	ARU	Arutt, Charles N.; Alles, Michael L.; Liao, Wenjun; Gong, Huiqi; Davidson, Jim L.; Schrimpf, Ronald D.; Reed, Robert A.; Weller, Robert A.; Bolotin, Kirill; Nicholl, Ryan; Thang Toan, Pham; Zettl, Alex; Du, Qingyang; Hu, Juejun; Li, Mo; Alphenaar, Bruce W.; Lin, Ji-Tzuoh; Shurva, Pranoy Deb; McNamara, Shamus; Walsh, Kevin M.; Feng, Philip X. L.; Hutin, Louis; Ernst, Thomas; Homeijer, Brian D.; Polcawich, Ronald G.; Proie, Robert M.; Jones, Jacob L.; Glaser, Evan R.; Cress, Cory D.; Bassiri-Gharb, Nazanin	The study of radiation effects in emerging micro and nano electro mechanical systems (M and NEMs)	Semiconductor Science and Technology	1.9	22	1		1				
8	BAT	Bates, AM ; Zickel, B ; Krebs, S ; Mukherjee, S ; Schuppert, ND ; Choi, MJ ; Park, SD	Analytical Study and Experimental Validation of Copper II Sulfate and Potassium Ferri/Ferrocyanide Thermocells Using Onsager Flux Equations	JOURNAL OF ENERGY RESOURCES TECHNOLOGY-TRANSACTIONS OF THE ASME	3	3	1		1				
9	BRA	Brahmaji, B ; Rajyalakshmi, S ; Kamal, CS ; Atla, V ; Veeraiah, V ; Rao, KV ; Rao, KR	Optical emissions of Ce3+ doped Sulphamic acid single crystals by low temperature unidirectional growth technique	OPTICAL MATERIALS	3.9	18		1	1				
10	BRA	Brals, J ; Smith, JD ; Ibrahim, F ; Gallou, F ; Handa, S	Micelle-Enabled Palladium Catalysis for Convenient sp(2)-sp(3) Coupling of Nitroalkanes with Aryl Bromides in Water Under Mild Conditions	ACS CATALYSIS	12.9	95	1		1				
11	DAV	Davis, A ; Calvary, C ; Grapperhaus, C	Synthesis of thiosemicarbazones with functionalized pendant amines	ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY	14.357	0	1		1				
12	DHA	Dharmadasa, IM ; Madugu, ML ; Olusola, OI ; Echendu, OK ; Fauzi, F ; Diso, DG ; Weerasinghe, AR ; Druffel, T ; Dharmadasa, R ; Lavery, B ; Jasinski, JB ; Krentsel, TA ; Sumanasekera, G	Electroplating of CdTe Thin Films from Cadmium Sulphate Precursor and Comparison of Layers Grown by 3-Electrode and 2-Electrode Systems	COATINGS	3.4	27		1	1				
13	DRU	Druffel, T ; Ankireddy, K ; Lavery, BW	Scalable Manufacturing of Solar Cells Enabled by Intense Pulsed Light	2017 24TH INTERNATIONAL WORKSHOP ON ACTIVE-MATRIX FLATPANEL DISPLAYS AND DEVICES		0		1	1				
14	EBR	Ebrahimi, M ; Gerber, EL ; Rockaway, TD	Temporal performance assessment of wastewater treatment plants by using multivariate statistical analysis	JOURNAL OF ENVIRONMENTAL MANAGEMENT	8.7	79	1		1				
15	EME	Emery, Sarah M.; Reid, Matthew L.; Bell-Dereske, Lukas; Gross, Katherine L.	Soil mycorrhizal and nematode diversity vary in response to bioenergy crop identity and fertilization	Global Change Biology Bioenergy	5.6	55	1		1				
16	GAB	Gabriel, CM ; Parmentier, M ; Riegert, C ; Lanz, M ; Handa, S ; Lipshutz, BH ; Gallou, F	Sustainable and Scalable Fe/ppm Pd Nanoparticle Nitro Group Reductions in Water at Room Temperature	ORGANIC PROCESS RESEARCH & DEVELOPMENT	3.4	53	1		1				
17	GHA	Ghavami, M ; Zhao, Q ; Javadi, S ; Jangam, JSD ; Jasinski, JB ; Saraei, N	Change of organobentonite interlayer microstructure induced by sorption of aromatic and petroleum hydrocarbons-A combined study of laboratory characterization and molecular dynamics simulations	COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS	5.2	20		1	1				
18	GON	Gong, HQ ; Liao, WJ ; Zhang, EX ; Sternberg, AL; McCurdy, MW ; Davidson, JL ; Reed, RA; Fleetwood, DM ; Schrimpf, RD ; Shuvra, PD ; Lin, JT ; McNamara, S ; Walsh, KM ; Alphenaar, BW ; Alles, ML	Total-Ionizing-Dose Effects in Piezoresistive Micromachined Cantilevers	IEEE TRANSACTIONS ON NUCLEAR SCIENCE	1.8	12	1		1				

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19	GRA	Grapperhaus, C ; Haddad, A ; Garabato, B ; Buchanan, R ; Kozlowski, P	Hydrogen evolution without metal-hydrides: Ligand-centered HER catalysts with transition metals and non-transition metals	ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY	**14.357**	**0**	1		1
20	GRA	Grapperhaus, C ; Zhang, WY ; Buchanan, R	Modification of glassy carbon electrodes with Cu- and Zn-bis(thiosemicarbazones) as heterogeneous HER catalysts	ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY	**14.357**	**0**	1		1
21	GUO	Guo, YS ; Lian, YS	High-speed oblique drop impact on thin liquid films	PHYSICS OF FLUIDS	**4.6**	**47**	1		1
22	GUP	Gupta, S ; Carrizosa, SB ; McDonald, B ; Jasinski, J ; Dimakis, N	Graphene-family nanomaterials assembled with cobalt oxides and cobalt nanoparticles as hybrid supercapacitive electrodes and enzymeless glucose detection platforms	JOURNAL OF MATERIALS RESEARCH	**2.7**	**27**		1	1
23	HAD	Haddad, AZ ; Cronin, SP ; Mashuta, MS ; Buchanan, RM ; Grapperhaus, CA	Metal-Assisted Ligand-Centered Electrocatalytic Hydrogen Evolution upon Reduction of a Bis(thiosemicarbazonato)Cu(II) Complex	INORGANIC CHEMISTRY	**4.6**	**111**	1		1
24	HAR	Harnett, CK	Tobiko: A Contact Array for Self-Configuring, Surface-Powered Sensors	PROCEEDINGS OF THE 2017 ACM SIGCHI CONFERENCE ON HUMAN FACTORS IN COMPUTING SYSTEMS (CHI'17)		**1**	1		1
25	HAR	Harnett, CK ; Zhao, HC ; Shepherd, RF	Stretchable Optical Fibers: Threads for Strain-Sensitive Textiles	ADVANCED MATERIALS TECHNOLOGIES	**6.8**	**83**	1		1
26	HER	Herde, ZD ; John, PD ; Alvarez-Fonseca, D ; Satyavolu, J ; Burns, CT	Stereoselective acetylation of hemicellulosic C5-sugars	CARBOHYDRATE RESEARCH	**3.1**	**3**		1	1
27	HON	Hona, RK ; Huq, A ; Mulmi, S ; Ramezanipour, F	Transformation of Structure, Electrical Conductivity, and Magnetism in AA ' Fe2O6-delta, A = Sr, Ca and A ' = Sr	INORGANIC CHEMISTRY	**4.6**	**30**	1		1
28	HON	Hona, RK ; Huq, A ; Ramezanipour, F	Unraveling the Role of Structural Order in the Transformation of Electrical Conductivity in Ca2FeCoO6-delta, CaSrFeCoO6-delta, and Sr2FeCoO6-delta	INORGANIC CHEMISTRY	**4.6**	**40**	1		1
29	HOS	Hossain, MA ; Phung, TK ; Tulaphol, S ; Sun, N ; Prasomsri, T ; Sathitsuksanoh, N	Efficient sugar release from softwoods by an integrated thermochemical and biological process	ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY	**14.357**	**0**	1		1
30	IEZ	Iezzi, B ; Ankireddy, K ; Twiddy, J ; Losego, MD ; Jur, JS	Printed, metallic thermoelectric generators integrated with pipe insulation for powering wireless sensors	APPLIED ENERGY	**11.2**	**69**	1		1
31	JAI	Jain, R ; Haddad, A ; Mashuta, M ; Buchanan, R ; Grapperhaus, C	Electrocatalytic hydrogen production and hydrogen oxidation using tetradentate nickel (II) and zinc (II) complexes with P2S2 ligand framework: Synthesis, characterization and mechanistic insights	ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY	**14.357**	**0**	1		1
32	JAI	Jain, R ; Mashuta, MS ; Buchanan, RM ; Grapperhaus, CA	Electrocatalytic Hydrogen Evolution and Hydrogen Oxidation with a Ni(PS)(2) Complex	EUROPEAN JOURNAL OF INORGANIC CHEMISTRY	**2.3**	**17**	1		1
33	JOK	Jokinen, TA ; McNamara, S	Band-to-Band Tunneling Diode for Ultralow-Voltage Applications	IEEE TRANSACTIONS ON ELECTRON DEVICES	**3.1**	**7**	1		1
34	KAM	Kamal, CS ; Rao, TKV ; Samuel, T ; Reddy, PVSSSN ; Jasinski, JB ; Ramakrishna, Y; Rao, MC ; Rao, KR	Blue to magenta tunable luminescence from LaGaO3: Bi3+, Cr3+ doped phosphors for field emission display applications	RSC ADVANCES	**3.9**	**25**		1	1
35	KAM	Kamal, CS ; Rao, TKV ; Reddy, PVSSSN ; Sujatha, K ; Ajayi, BP ; Jasinski, JB ; Rao, KR	Unravelling the energy transfer mechanism in bismuth co-activation of LaInO3: Sm3+/Ho3+ nanophosphor for color-tunable luminescence	RSC ADVANCES	**3.9**	**16**		1	1
36	KHO	Khodabandeh, E ; Bai, LH ; Heragu, SS ; Evans, GW ; Elrod, T ; Shirkness, M	Modelling and solution of a large-scale vehicle routing problem at GE appliances & lighting	INTERNATIONAL JOURNAL OF PRODUCTION RESEARCH	**9.2**	**11**	1		1
37	KLU	Klumphu, P ; Desfeux, C ; Zhang, YT ; Handa, S ; Gallou, F ; Lipshutz, BH	Micellar catalysis-enabled sustainable ppm Au-catalyzed reactions in water at room temperature	CHEMICAL SCIENCE	**8.4**	**48**	1		1
38	KUM	Kumar, B ; Atla, V ; Brian, JP ; Kumari, S ; Nguyen, TQ ; Sunkara, M ; Spurgeon, JM	Reduced SnO2 Porous Nanowires with a High Density of Grain Boundaries as Catalysts for Efficient Electrochemical CO2-into-HCOOH Conversion	ANGEWANDTE CHEMIE-INTERNATIONAL EDITION	**16.6**	**435**		1	1
39	KUM	Kumar, L ; Koukoulas, AA ; Mani, S ; Satyavolu, J	Integrating Torrefaction in the Wood Pellet Industry: A Critical Review	ENERGY & FUELS	**5.3**	**100**		1	1
40	KUM	Kumari, S ; Ajayi, BP ; Kumar, B ; Jasinski, JB ; Sunkara, MK ; Spurgeon, JM	A low-noble-metal W1-xIrxO3-delta water oxidation electrocatalyst for acidic media via rapid plasma synthesis	ENERGY & ENVIRONMENTAL SCIENCE	**32.5**	**124**		1	1
41	LAT	Latham, J ; Mohebbi, M ; McIntyre, ML	Output Feedback Control of a Single Phase Voltage Source Inverter Utilizing a Variable Structure Observer	2017 AMERICAN CONTROL CONFERENCE (ACC)		**4**	1		1

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42	LI	Li, WG ; Sun, ZH ; Luo, ZY ; Shah, SP	Influence of Relative Mechanical Strengths between New and Old Cement Mortars on the Crack Propagation of Recycled Aggregate Concrete	JOURNAL OF ADVANCED CONCRETE TECHNOLOGY	**2**	**8**	1		1
43	LI	Li, ZH ; Sathitsuksanoh, N ; Zhang, W ; Goodell, B ; Renneckar, S	Towards an Understanding of Cellulose Microfibril Dimensions from TEMPO-Oxidized Pulp Fiber	NANOCELLULOSES: THEIR PREPARATION, PROPERTIES, AND APPLICATIONS	**0.566**	**2**	1		1
44	LIN	Lin, JT ; Shuvra, PD ; McNamara, S ; Gong, H ; Liao, W ; Davidson, JL ; Walsh, KM ; Alles, ML ; Alphenaar, BW	Near-Surface Electronic Contribution to Semiconductor Elasticity	PHYSICAL REVIEW APPLIED	**4.6**	**6**	1		1
45	LIN	Lin, JT ; Shuvra, PD ; Liao, WJ ; McNamara, S ; Walsh, KM ; Arutt, CN ; Gong, HQ ; Davison, JL ; Alles, ML ; Alphenaar, BW	SURFACE CARRIER CONCENTRATION EFFECT ON ELASTIC MODULUS OF PIEZOELECTRIC MEMS SILICON CANTILEVERS	2017 19TH INTERNATIONAL CONFERENCE ON SOLID-STATE SENSORS, ACTUATORS AND MICROSYSTEMS (TRANSDUCERS)		**5**	1		1
46	LIU	Liu, RJ ; Sun, ZH ; Ding, QJ ; Chen, P ; Chen, KL	Mitigation of Early-Age Cracking of Concrete Based on a New Gel-Type Superabsorbent Polymer	JOURNAL OF MATERIALS IN CIVIL ENGINEERING	**3.2**	**9**	1		1
47	LOE	Loeian, MS ; Ziolkowska, DA ; Khosravi, F; Jasinski, JB ; Panchapakesan, B	Exfoliated WS2-Nafion Composite based Electromechanical Actuators (vol 7, 2017)	SCIENTIFIC REPORTS	**4.6**	**0**		1	1
48	LU	Lu, ZC ; Zeng, XJ ; Hammond, GB ; Xu, B	Widely Applicable Hydrofluorination of Alkenes via Bifunctional Activation of Hydrogen Fluoride	JOURNAL OF THE AMERICAN CHEMICAL SOCIETY	**15**	**65**	1		1
49	LU	Lu, ZC ; Jasinski, J ; Handa, S ; Hammond, G	Development of cheap, recyclable cellulose-bonded palladium catalyst for cross coupling reactions	ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY	**14.357**	**0**	1		1
50	MAR	Martin, MD ; Thompson, AK ; Schuhmann, TG ; Walsh, K ; Keynton, RS	MEMS Stabilized Lipid Membranes and Their Parylene Encapsulation	JOURNAL OF MICROELECTROMECHANICAL SYSTEMS	**2.7**	**0**	1		1
51	MCA	McAndrew, RP ; Sathitsuksanoh, N ; Mbughuni, MM ; Heins, RA ; Pereira, JH ; George, A ; Sale, KL ; Fox, BG ; Simmons, BA ; Adams, PD	Dioxygen binding in NOV1 crystal structures	PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA	**11.1**	**6**	1		1
52	MOH	Mohebbi, M ; Latham, J ; McIntyre, ML ; Rivera, P	Filter-Based Control of an H-Bridge Inverter with Output LC Filter	2017 AMERICAN CONTROL CONFERENCE (ACC)		**1**	1		1
53	MOH	Mohebbi, M ; McIntyre, ML ; Latham, J	A Backstepping Controller for Voltage Source Inverter with Inductor Current and Output Current Observers	2017 IEEE POWER AND ENERGY CONFERENCE AT ILLINOIS (PECI)		**0**	1		1
54	MOH	Mohebbi, M ; McIntyre, ML ; Latham, J	A Learning Backstepping Controller for Voltage Source Inverter with Nonlinear Loads	2017 IEEE POWER AND ENERGY CONFERENCE AT ILLINOIS (PECI)		**0**	1		1
55	MOH	Mohebbi, M ; McIntyre, ML ; Latham, J ; Rivera, P	A Filter-Based Controller for a Buck Converter	2017 IEEE 18TH WORKSHOP ON CONTROL AND MODELING FOR POWER ELECTRONICS (COMPEL)		**0**	1		1
56	MOH	Mohebbi, M ; McIntyre, ML ; Latham, J ; Rivera, P	Nonlinear Control of Standalone Inverter with Unbalanced, Nonlinear Load	2017 IEEE POWER AND ENERGY CONFERENCE AT ILLINOIS (PECI)		**0**	1		1
57	MUK	Mukherjee, S ; Schuppert, N ; Bates, A ; Lee, SC ; Park, S	Novel mesoporous microspheres of Al and Ni doped LMO spinels and their performance as cathodes in secondary lithium ion batteries	INTERNATIONAL JOURNAL OF GREEN ENERGY	**3.3**	**15**	1		1
58	MUK	Mukherjee, Santanu; Schuppert, Nicholas; Bates, Alex; Jasinski, Jacek; Hong, Jong-Eun; Choi, Moon Jong; Park, Sam	An electrochemical and structural study of highly uniform tin oxide nanowires fabricated by a novel, scalable solvoplasma technique as anode material for sodium ion batteries	Journal of Power Sources (vol 347, pg 201)	**9.2**	**15**	1		1
59	NAM	Nambo, A ; He, J ; Nguyen, TQ ; Atla, V ; Druffel, T ; Sunkara, M	Ultrafast Carbon Dioxide Sorption Kinetics Using Lithium Silicate Nanowires	NANO LETTERS	**10.8**	**56**		1	1
60	PAR	Paronyan, TM ; Thapa, AK ; Sherehiy, A ; Jasinski, JB ; Jangam, JSD	Incommensurate Graphene Foam as a High Capacity Lithium Intercalation Anode	SCIENTIFIC REPORTS	**4.6**	**32**		1	1
61	PAR	T.M. Paronyan, A.K. Thapa, A. Sherehiy, J.B. Jasinski, J.S.D. Jangam	Exceptional Lithium Intercalation Capacity of Incommensurate Graphene Foam in Rechargeable Batteries	*ECS Transactions* 77 (11), 311-320		**1**		1	1
62	PER	Perez-Pimienta, JA ; Sathitsuksanoh, N ; Thompson, VS ; Tran, K ; Ponce-Noyola, T ; Stavila, V ; Singh, S ; Simmons, BA	Ternary ionic liquid-water pretreatment systems of an agave bagasse and municipal solid waste blend	BIOTECHNOLOGY FOR BIOFUELS	**6.3**	**26**	1		1
63	POR	Porter, Daniel A.; Hoang, Trung V. T.; Berfield, Thomas A.	Effects of in-situ poling and process parameters on fused filament fabrication printed PVDF sheet mechanical and electrical properties	Additive Manufacturing	**11**	**76**	1		1
64	PRA	Prater, R ; Lian, YS	Detached Eddy Simulation Simulation of Asymmetrical Flow in a High Pressure Diesel Injector	JOURNAL OF ENGINEERING FOR GAS TURBINES AND POWER-TRANSACTIONS OF THE ASME	**1.5**	**0**	1		1
65	RAO	Rao, KR ; Rajyalakshmi, S ; Kamal, CS ; Brahmaji, B ; Jasinski, JB ; Rao, TKV	Unique optical properties of Eu3+ doped L-histidine hydrochloride mono hydrate single crystals from low temperature growth technique	SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY	**4.4**	**5**		1	1

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66	RIV	Rivera, PR ; McIntyre, ML ; Mohebbi, M ; Latham, J	Single - Stage Single - Phase Grid - Connected Photovoltaic System with Current Ripple Mitigation Based on Nonlinear Control	2017 8TH INTERNATIONAL CONFERENCE ON ENERGY AND ENVIRONMENT (CIEM)		**1**	1		1
67	RIV	Rivera, PR ; McIntyre, ML ; Mohebbi, M ; Latham, J	Single - Stage Three - Phase Grid - Connected Photovoltaic System with Maximum Power Tracking and Active and Reactive Power Control based on Nonlinear Control	2017 IEEE ENERGY CONVERSION CONGRESS AND EXPOSITION (ECCE)		**13**	1		1
68	RIV	Rivera, PR ; McIntyre, ML ; Mohebbi, M ; Latham, J	Nonlinear Control for Single-Stage Single-Phase Grid-Connected Photovoltaic Systems	2017 IEEE 18TH WORKSHOP ON CONTROL AND MODELING FOR POWER ELECTRONICS (COMPEL)		**2**	1		1
69	SAL	U. Salgaeva, R. Zhao, S. Mushinsky, J. Jasinski, X.-A. Fu, V. Henner, R. Dharmasena, G. Sumanasekera	Photoluminescence in Functionalized/Doped Graphene Quantum Dots: Role of Surface States	*J. Nanomater. Mol. Nanotechnol.* 6 (2) (2017), doi: 10.4172/2324-8777.1000215	**1.59**	**1**		1	1
70	SAM	Samuel, T ; Kamal, CS ; Ravipati, S ; Ajayi, BP ; Veeraiah, V ; Sudarsan, V ; Rao, KR	High purity green photoluminescence emission from Tb3+, Bi3+ co-doped LaGaO3 nanophosphors	OPTICAL MATERIALS	**3.9**	**17**		1	1
71	SMI	Smith, JD ; Gallou, F ; Handa, S	Organometallic Catalysis and Sustainability: From Origin to Date Rapid progress towards more sustainable processes for industry	JOHNSON MATTHEY TECHNOLOGY REVIEW	**2.3**	**18**	1		1
72	STR	Strain, J ; Abeywickrama, T ; Rathnayake, H ; Liu, JJ	Ultrafast transient absorption spectroscopy investigation of photoinduced dynamics in donor-acceptor core-shell nanostructures for organic photovoltaics	ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY	**14.357**	**0**	1		1
73	SUN	Sun, ZH ; Liu, FJ ; Tong, T ; Qi, CQ ; Yu, Q	Hydration of Concrete Containing Hybrid Recycled Demolition Powders	JOURNAL OF MATERIALS IN CIVIL ENGINEERING	**3.2**	**25**	1		1
74	TAF	Tafazzoli, F ; Frigui, H ; Nishiyama, K	A Large and Diverse Dataset for Improved Vehicle Make and Model Recognition	2017 IEEE CONFERENCE ON COMPUTER VISION AND PATTERN RECOGNITION WORKSHOPS (CVPRW)		**31**	1		1
75	TEL	Telfah, H ; Jamhawi, A ; Teunis, MB ; Sardar, R ; Liu, JJ	Ultrafast Exciton Dynamics in Shape-Controlled Methylammonium Lead Bromide Perovskite Nanostructures: Effect of Quantum Confinement on Charge Carrier Recombination	JOURNAL OF PHYSICAL CHEMISTRY C	**3.7**	**22**	1		1
76	TEL	Telfah, H ; Liu, JJ ; Jamhawi, A ; Strain, J ; Teunis, M ; Sardar, R	Ultrafast transient absorption spectroscopy investigation of excited state dynamics of methyl ammonium lead bromide perovskite nanostructures	ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY	**14.357**	**0**	1		1
77	TID	Tidwell, Steven; Latham, Joseph; McIntyre, Michael	Partial Shading Abatement Through Cascaded H-Bridge Topology	2017 Ieee 44th Photovoltaic Specialist Conference (Pvsc)		**0**	1		1
78	TSA	H. Tsai, W. Y. Nie, Y. H. Lin, J. C. Blancon, S. Tretiak, J. Even, G. Gupta, P. M. Ajayan, A. D. Mohite	Effect of Precursor Solution Aging on the Crystallinity and Photovoltaic Performance of Perovskite Solar Cells	Advanced Energy Materials	**27.8**	**141**	1		1
79	TUL	Tulaphol, S ; Phung, TK ; Hossain, MA ; Sun, N ; Prasomsri, T ; Renneckar, S ; Sathitsuksanoh, N	Industrial hemp for fuels and chemicals: From weed to wonder	ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY	**14.357**	**0**	1		1
80	VIS	Vishnosky, N ; Mashuta, M ; Buchanan, R ; Grapperhaus, C	Syntheses, structures, and electrochemical studies of N, N '-bis(alkylthiocarbamate) butane-2,3-diimine Cu(II) complexes as pendant alkoxy derivatives of Cu(ATSM)	ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY	**14.357**	**0**	1		1
81	VIS	Vishnosky, NS ; Mashuta, MS ; Buchanan, RM ; Grapperhaus, CA	Syntheses, structures, and electrochemical studies of N, N '-bis (alkylthiocarbamate) butane-2,3-diimine Cu(II) complexes as pendent alkoxy derivatives of Cu(ATSM)	INORGANICA CHIMICA ACTA	**2.8**	**7**	1		1
82	WHI	White, RT ; Kumar, B ; Kumari, S ; Spurgeon, JM	Simulations of non-monolithic tandem solar cell configurations for electrolytic fuel generation	JOURNAL OF MATERIALS CHEMISTRY A	**11.9**	**11**		1	1
83	YAM	Yamaguchi, H ; Liu, FZ ; DeFazio, J ; Villarrubia, CWN ; Finkenstadt, D ; Shabaev, A ; Jensen, KL ; Pavlenko, V ; Mehl, M ; Lambrakos, S ; Gupta, G ; Mohite, AD ; Moody, NA	Active bialkali photocathodes on free-standing graphene substrates	NPJ 2D MATERIALS AND APPLICATIONS	**9.7**	**28**	1		1
84	ZHA	J. Zhang, J. J. Wu, H. Guo, W. B. Chen, J. T. Yuan, U. Martinez, G. Gupta, A. Mohite, P. M. Ajayan, J. Lou	Unveiling Active Sites for the Hydrogen Evolution Reaction on Monolayer MoS2	Adv. Mater., 29	**29.4**	**218**	1		1
85	ZHA	Zhang, WY ; Buchanan, R ; Grapperhaus, C	Translation of ligand-centered hydrogen evolution reaction activity and mechanism from homogeneous to solid surfaces	ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY	**14.357**	**0**	1		1
86	ZHA	Zhang, WY ; Haddad, AZ ; Garabato, BD ; Kozowski, PM ; Buchanan, RM ; Grapperhaus, CA	Translation of Ligand-Centered Hydrogen Evolution Reaction Activity and Mechanism of a Rhenium-Thiolate from Solution to Modified Electrodes: A Combined Experimental and Density Functional Theory Study	INORGANIC CHEMISTRY	**4.6**	**20**	1		1
87	ZHA	Zhao, R ; Ahktar, M ; Alruqi, A ; Dharmasena, R ; Jasinski, JB ; Thantirige, RM ; Sumanasekera, GU	Electrical transport properties of graphene nanowalls grown at low temperature using plasma enhanced chemical vapor deposition	MATERIALS RESEARCH EXPRESS	**2.3**	**18**		1	1

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88	ZIO	Ziolkowska, DA ; Jangam, JSD ; Rudakov, G ; Paronyan, TM ; Akhtar, M ; Sumanasekera, GU ; Jasinski, JB	Simple synthesis of highly uniform bilayer-carbon nanocages	CARBON	**10.9**	**20**		1	1

PERSONNEL 2017	ASSOCIATED FACULTY	DEPARTMENT, COLLEGE	**50**
	Alexander, Suraj	Industrial Engineering, JB Speed School of Engineering	1
	Alphenaar, Bruce	Electrical & Computer Engineering, JB Speed School of Engineering	1
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	Atre, Sundar	Mechanical 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
	Carriero, Margaret	Biology, College of Arts & Sciences	1
	Dowling, Timothy	Physics & Astronomy, College of Arts & Sciences	1
	Elmaghraby, Adel	Computer Science & Engineering, JB Speed School of Engineering	1
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	Handa, Sachin	Chemistry, College of Arts & Sciences	1
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	Jayanthi, Chakram	Physics & Astronomy, College of Arts & Sciences	1
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	Lian, Yongsheng	Mechanical Engineering, JB Speed School of Engineering	1
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	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
	Nantz, Michael	Chemistry, College of Arts & Sciences	1
	Nasraoui, Olfa	Computer Science & Engineering, JB Speed School of Engineering	1
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	Prater, Glen	Mechanical Engineering, JB Speed School of Engineering	1
	Ramazanipour, Farshid	Chemistry, College of Arts & Sciences	1
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	Sathitsuksanoah, Noppadon	Chemical Engineering, JB Speed School of Engineering	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
	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
	Wang, Hui	Mechanical Engineering, JB Speed School of Engineering	1
	Willing, Gerold	Chemical Engineering, JB Speed School of Engineering	1

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Bu Aamiri, Osama	Postdoctoral Associate		1
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Kumar, Bijandra	Postdoctoral Associate		1
Kumari, Sudesh	Postdoctoral Associate		1
Lassell, Austin	Research Associate		1
Marsh, Andrew	Assistant Director/Program Officer		1
Mastorovich, Bruce	Research Associate		1
Paxton, William "Hank"	Research Scientist/Engineer		1
Phung, Thanh	Postdoctoral Associate		1
Ravipati, Srikanth	Postdoctoral Associate		1
Salazar, Eunice	Unit Business Manager		1
Satyavolu, Jagannadh	Sr. Research Scientist/Engineer		1
Spurgeon, Joshua	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
Thilakaratne, Chamila	Postdoctoral Associate		1
Thomas, Jonathan	Research Associate		1
Ziolkowska, Dominika	Postdoctoral Associate		1

VISITING SCHOLARS			12
Akram, Muhammad Zain	Visiting PhD student Scholar, CHINA		1
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Garg, Rajat	Undergrad Intern, INDIA		1
Li, Li	Research Scholar, CHINA		1
Liang, Qingcheng	Research Scholar, CHINA		1
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Sharma, Priya	Undergrad Intern, INDIA		1
Singh, Pranav	Undergrad Intern, INDIA		1
Wadhwani, Siddarth	Undergrad Intern, INDIA		1