

# Susan E Habas

## List of Publications by Year in descending order

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51  
papers

8,029  
citations

186265  
28  
h-index

254184  
43  
g-index

55  
all docs

55  
docs citations

55  
times ranked

11637  
citing authors

#	ARTICLE	IF	CITATIONS
1	Catalyst design to direct high-octane gasoline fuel properties for improved engine efficiency. Applied Catalysis B: Environmental, 2022, 301, 120801.	20.2	7
2	Throughput Optimization of Molybdenum Carbide Nanoparticle Catalysts in a Continuous Flow Reactor Using Design of Experiments. ACS Applied Nano Materials, 2022, 5, 1966-1975.	5.0	10
3	Deactivation by Potassium Accumulation on a Pt/TiO <sub>2</sub> Bifunctional Catalyst for Biomass Catalytic Fast Pyrolysis. ACS Catalysis, 2022, 12, 465-480.	11.2	15
4	Controlled Synthesis of Transition Metal Phosphide Nanoparticles to Establish Composition-Dependent Trends in Electrocatalytic Activity. Chemistry of Materials, 2022, 34, 6255-6267.	6.7	17
5	Spectroscopic insight into carbon speciation and removal on a Cu/BEA catalyst during renewable high-octane hydrocarbon synthesis. Applied Catalysis B: Environmental, 2021, 287, 119925.	20.2	9
6	Performing <i>In Situ</i> Closed-Cell Gas Reactions in the Transmission Electron Microscope. Journal of Visualized Experiments, 2021, , .	0.3	0
7	Practical Aspects of Performing Quantitative EELS Measurements of Gas Compositions in Closed-Cell Gas Reaction S/TEM. Microscopy and Microanalysis, 2021, 27, 796-798.	0.4	0
8	An Exceptionally Mild and Scalable Solution-Phase Synthesis of Molybdenum Carbide Nanoparticles for Thermocatalytic CO <sub>2</sub> Hydrogenation. Journal of the American Chemical Society, 2020, 142, 1010-1019.	13.7	79
9	Single-Step Conversion of Ethanol to <i>n</i> -Butene over Ag-ZrO <sub>2</sub> /SiO <sub>2</sub> Catalysts. ACS Catalysis, 2020, 10, 10602-10613.	11.2	34
10	Dehydrogenative Coupling of Methanol for the Gas-Phase, One-Step Synthesis of Dimethoxymethane over Supported Copper Catalysts. ACS Sustainable Chemistry and Engineering, 2020, 8, 12151-12160.	6.7	22
11	Electrocatalytic CO <sub>2</sub> Reduction over Cu <sub>3</sub> P Nanoparticles Generated via a Molecular Precursor Route. ACS Applied Energy Materials, 2020, 3, 10435-10446.	5.1	16
12	Multi-scale Characterization Study Enabling Deactivation Mechanism in Formed Zeolite Catalyst. Microscopy and Microanalysis, 2020, 26, 1270-1271.	0.4	0
13	<i>In situ</i> S/TEM Reactions of Ag/ZrO <sub>2</sub> /SBA-16 Catalysts for Single-Step Conversion of Ethanol to Butadiene. Microscopy and Microanalysis, 2019, 25, 1460-1461.	0.4	4
14	Single-Step Conversion of Methyl Ethyl Ketone to Olefins over Zn <sub>x</sub> Zr <sub>y</sub> O <sub>z</sub> Catalysts in Water. ChemCatChem, 2019, 11, 3340-3340.	3.7	1
15	Application of phase-pure nickel phosphide nanoparticles as cathode catalysts for hydrogen production in microbial electrolysis cells. Bioresource Technology, 2019, 293, 122067.	9.6	32
16	Single-Step Conversion of Methyl Ethyl Ketone to Olefins over Zn <sub>x</sub> Zr <sub>y</sub> O <sub>z</sub> Catalysts in Water. ChemCatChem, 2019, 11, 3393-3400.	3.7	7
17	Controlled Design of Phase- and Size-Tunable Monodisperse Ni <sub>2</sub> P Nanoparticles in a Phosphonium-Based Ionic Liquid through Response Surface Methodology. Chemistry of Materials, 2019, 31, 1552-1560.	6.7	25
18	In Situ S/TEM Reduction Reaction of Ni-Mo <sub>2</sub> C Catalyst for Biomass Conversion. Microscopy and Microanalysis, 2018, 24, 322-323.	0.4	1

#	ARTICLE	IF	CITATIONS
19	High-Throughput Continuous Flow Synthesis of Nickel Nanoparticles for the Catalytic Hydrodeoxygenation of Guaiacol. ACS Sustainable Chemistry and Engineering, 2017, 5, 632-639.	6.7	50
20	In situ S/TEM Reduction Reaction of Calcined Cu/BEA-zeolite Catalyst. Microscopy and Microanalysis, 2017, 23, 944-945.	0.4	0
21	An investigation into support cooperativity for the deoxygenation of guaiacol over nanoparticle Ni and Rh <sub>2</sub> P. Catalysis Science and Technology, 2017, 7, 2954-2966.	4.1	21
22	Evaluation of Silica-Supported Metal and Metal Phosphide Nanoparticle Catalysts for the Hydrodeoxygenation of Guaiacol Under Ex Situ Catalytic Fast Pyrolysis Conditions. Topics in Catalysis, 2016, 59, 124-137.	2.8	42
23	Conversion of Dimethyl Ether to 2,2,3-Trimethylbutane over a Cu/BEA Catalyst: Role of Cu Sites in Hydrogen Incorporation. ACS Catalysis, 2015, 5, 1794-1803.	11.2	37
24	A Facile Molecular Precursor Route to Metal Phosphide Nanoparticles and Their Evaluation as Hydrodeoxygenation Catalysts. Chemistry of Materials, 2015, 27, 7580-7592.	6.7	60
25	Surface Chemistry Exchange of Alloyed Germanium Nanocrystals: A Pathway Toward Conductive Group IV Nanocrystal Films. Journal of Physical Chemistry Letters, 2013, 4, 416-421.	4.6	39
26	Solution deposited precursors and rapid optical processing used in the production of CIGS solar cells. , 2011, , .		0
27	Nanocrystal bilayer for tandem catalysis. Nature Chemistry, 2011, 3, 372-376.	13.6	466
28	High-Efficiency Low-Cost Photovoltaic Modules Based on CIGS Thin Films from Solution Precursors. Materials Research Society Symposia Proceedings, 2010, 1247, 1.	0.1	0
29	Field assisted simultaneous synthesis and transfer FASST <sup>&amp;#x00AE;</sup> method used in conjunction with liquid precursors to produce CIGS solar cells. , 2010, , .		1
30	Influence of Size, Shape, and Surface Coating on the Stability of Aqueous Suspensions of CdSe Nanoparticles. Chemistry of Materials, 2010, 22, 5251-5257.	6.7	74
31	Low-Cost Inorganic Solar Cells: From Ink To Printed Device. Chemical Reviews, 2010, 110, 6571-6594.	47.7	412
32	Direct write metallization for photovoltaic cells and scaling thereof. , 2010, , .		10
33	In situ spectroscopic detection of SMSI effect in a Ni/CeO <sub>2</sub> system: hydrogen-induced burial and dig out of metallic nickel. Chemical Communications, 2010, 46, 1097-1099.	4.1	140
34	Probing Compositional Variation within Hybrid Nanostructures. ACS Nano, 2009, 3, 3369-3376.	14.6	27
35	Interfacing Metal Nanoparticles with Semiconductor Nanowires. Chemistry of Materials, 2009, 21, 3662-3667.	6.7	62
36	Shape Control of Colloidal Metal Nanocrystals. Small, 2008, 4, 310-325.	10.0	2,205

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37	Synthesis of Lead Chalcogenide Alloy and Core-Shell Nanowires. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 5605-5608.	13.8	55
38	Dendrimer Templated Synthesis of One Nanometer Rh and Pt Particles Supported on Mesoporous Silica: Catalytic Activity for Ethylene and Pyrrole Hydrogenation. <i>Nano Letters</i> , 2008, 8, 2027-2034.	9.1	254
39	Highly Selective Synthesis of Catalytically Active Monodisperse Rhodium Nanocubes. <i>Journal of the American Chemical Society</i> , 2008, 130, 5868-5869.	13.7	226
40	Localized Pd Overgrowth on Cubic Pt Nanocrystals for Enhanced Electrocatalytic Oxidation of Formic Acid. <i>Journal of the American Chemical Society</i> , 2008, 130, 5406-5407.	13.7	399
41	Selective Growth of Metal and Binary Metal Tips on CdS Nanorods. <i>Journal of the American Chemical Society</i> , 2008, 130, 3294-3295.	13.7	313
42	Near-Monodisperse Ni-Cu Bimetallic Nanocrystals of Variable Composition: Controlled Synthesis and Catalytic Activity for H <sub>2</sub> Generation. <i>Journal of Physical Chemistry C</i> , 2008, 112, 12092-12095.	3.1	67
43	Silver Ion Mediated Shape Control of Platinum Nanoparticles: Removal of Silver by Selective Etching Leads to Increased Catalytic Activity. <i>Journal of Physical Chemistry C</i> , 2008, 112, 4797-4804.	3.1	71
44	Novel hybrid nanostructures for photonic and energy applications. <i>Proceedings of SPIE</i> , 2008, , .	0.8	1
45	Rhodium Nanoparticles from Cluster Seeds: Control of Size and Shape by Precursor Addition Rate. <i>Nano Letters</i> , 2007, 7, 785-790.	9.1	114
46	One-step Polyol Synthesis and Langmuir-Blodgett Monolayer Formation of Size-tunable Monodisperse Rhodium Nanocrystals with Catalytically Active (111) Surface Structures. <i>Journal of Physical Chemistry C</i> , 2007, 111, 12243-12253.	3.1	136
47	Shaping binary metal nanocrystals through epitaxial seeded growth. <i>Nature Materials</i> , 2007, 6, 692-697.	27.5	1,156
48	Carbon Monoxide Adsorption and Oxidation on Monolayer Films of Cubic Platinum Nanoparticles Investigated by Infrared-Visible Sum Frequency Generation Vibrational Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2006, 110, 15920-15925.	2.6	58
49	Probing the Interaction of Poly(vinylpyrrolidone) with Platinum Nanocrystals by UV-Raman and FTIR. <i>Journal of Physical Chemistry B</i> , 2006, 110, 23052-23059.	2.6	453
50	Morphological Control of Catalytically Active Platinum Nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 7824-7828.	13.8	608
51	Transitioning rationally designed catalytic materials to real world-working catalysts produced at commercial scale: nanoparticle materials. <i>Catalysis</i> , 0, , 213-281.	1.0	12