Susan E Habas

List of Publications by Year
in descending order

51 papers	8,029 citations	212478 28 h-index	286692 43 g-index
55 all docs	55 docs citations	55 times ranked	13523 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.	10.8	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.	2.4	10
3	Deactivation by Potassium Accumulation on a Pt/TiO₂ Bifunctional Catalyst for Biomass Catalytic Fast Pyrolysis. ACS Catalysis, 2022, 12, 465-480.	5.5	15
4	Controlled Synthesis of Transition Metal Phosphide Nanoparticles to Establish Composition-Dependent Trends in Electrocatalytic Activity. Chemistry of Materials, 2022, 34, 6255-6267.	3.2	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.	10.8	9
6	Performing In Situ Closed-Cell Gas Reactions in the Transmission Electron Microscope. Journal of Visualized Experiments, 2021, , .	0.2	0
7	Practical Aspects of Performing Quantitive EELS Measurements of Gas Compositions in Closed-Cell Gas Reaction S/TEM. Microscopy and Microanalysis, 2021, 27, 796-798.	0.2	0
8	An Exceptionally Mild and Scalable Solution-Phase Synthesis of Molybdenum Carbide Nanoparticles for Thermocatalytic CO₂ Hydrogenation. Journal of the American Chemical Society, 2020, 142, 1010-1019.	6.6	79
9	Single-Step Conversion of Ethanol to n-Butene over Ag-ZrO₂/SiO₂ Catalysts. ACS Catalysis, 2020, 10, 10602-10613.	5.5	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.	3.2	22
11	Electrocatalytic CO₂ Reduction over Cu₃P Nanoparticles Generated via a Molecular Precursor Route. ACS Applied Energy Materials, 2020, 3, 10435-10446.	2.5	16
12	Multi-scale Characterization Study Enabling Deactivation Mechanism in Formed Zeolite Catalyst. Microscopy and Microanalysis, 2020, 26, 1270-1271.	0.2	0
13	In situ S/TEM Reactions of Ag/ZrO₂/SBA-16 Catalysts for Single-Step Conversion of Ethanol to Butadiene. Microscopy and Microanalysis, 2019, 25, 1460-1461.	0.2	4
14	Singleâ€step Conversion of Methyl Ethyl Ketone to Olefins over Zn x Zr y O z Catalysts in Water. ChemCatChem, 2019, 11, 3340-3340.	1.8	1
15	Application of phase-pure nickel phosphide nanoparticles as cathode catalysts for hydrogen production in microbial electrolysis cells. Bioresource Technology, 2019, 293, 122067.	4.8	32
16	Singleâ€step Conversion of Methyl Ethyl Ketone to Olefins over Zn x Zr y O z Catalysts in Water. ChemCatChem, 2019, 11, 3393-3400.	1.8	7
17	Controlled Design of Phase- and Size-Tunable Monodisperse Ni₂P Nanoparticles in a Phosphonium-Based Ionic Liquid through Response Surface Methodology. Chemistry of Materials, 2019, 31, 1552-1560.	3.2	25
18	In Situ S/TEM Reduction Reaction of Ni-Mo2C Catalyst for Biomass Conversion. Microscopy and Microanalysis, 2018, 24, 322-323.	0.2	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.	3.2	50
20	In situ S/TEM Reduction Reaction of Calcined Cu/BEA-zeolite Catalyst. Microscopy and Microanalysis, 2017, 23, 944-945.	0.2	0
21	An investigation into support cooperativity for the deoxygenation of guaiacol over nanoparticle Ni and Rh₂P. Catalysis Science and Technology, 2017, 7, 2954-2966.	2.1	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.	1.3	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.	5.5	37
24	A Facile Molecular Precursor Route to Metal Phosphide Nanoparticles and Their Evaluation as Hydrodeoxygenation Catalysts. Chemistry of Materials, 2015, 27, 7580-7592.	3.2	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.	2.1	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.	6.6	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® 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.	3.2	74
31	Low-Cost Inorganic Solar Cells: From Ink To Printed Device. Chemical Reviews, 2010, 110, 6571-6594.	23.0	412
32	Direct write metallization for photovoltaic cells and scaling thereof. , 2010, , .		10
33	In situ spectroscopic detection ofSMSI effect in a Ni/CeO₂system: hydrogen-induced burial and dig out of metallic nickel. Chemical Communications, 2010, 46, 1097-1099.	2.2	140
34	Probing Compositional Variation within Hybrid Nanostructures. ACS Nano, 2009, 3, 3369-3376.	7.3	27
35	Interfacing Metal Nanoparticles with Semiconductor Nanowires. Chemistry of Materials, 2009, 21, 3662-3667.	3.2	62
36	Shape Control of Colloidal Metal Nanocrystals. Small, 2008, 4, 310-325.	5.2	2,205

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37	Synthesis of Lead Chalcogenide Alloy and Coreâ€“Shell Nanowires. Angewandte Chemie - International Edition, 2008, 47, 5605-5608.	7.2	55
38	Dendrimer Templated Synthesis of One Nanometer Rh and Pt Particles Supported on Mesoporous Silica: Catalytic Activity for Ethylene and Pyrrole Hydrogenation. Nano Letters, 2008, 8, 2027-2034.	4.5	254
39	Highly Selective Synthesis of Catalytically Active Monodisperse Rhodium Nanocubes. Journal of the American Chemical Society, 2008, 130, 5868-5869.	6.6	226
40	Localized Pd Overgrowth on Cubic Pt Nanocrystals for Enhanced Electrocatalytic Oxidation of Formic Acid. Journal of the American Chemical Society, 2008, 130, 5406-5407.	6.6	399
41	Selective Growth of Metal and Binary Metal Tips on CdS Nanorods. Journal of the American Chemical Society, 2008, 130, 3294-3295.	6.6	313
42	Near-Monodisperse Niâ^'Cu Bimetallic Nanocrystals of Variable Composition: Controlled Synthesis and Catalytic Activity for H₂ Generation. Journal of Physical Chemistry C, 2008, 112, 12092-12095.	1.5	67
43	Silver Ion Mediated Shape Control of Platinum Nanoparticles:â€‰ Removal of Silver by Selective Etching Leads to Increased Catalytic Activity. Journal of Physical Chemistry C, 2008, 112, 4797-4804.	1.5	71
44	Novel hybrid nanostructures for photonic and energy applications. Proceedings of SPIE, 2008, , .	0.8	1
45	Rhodium Nanoparticles from Cluster Seeds:Â Control of Size and Shape by Precursor Addition Rate. Nano Letters, 2007, 7, 785-790.	4.5	114
46	One-step Polyol Synthesis and Langmuirâ^'Blodgett Monolayer Formation of Size-tunable Monodisperse Rhodium Nanocrystals with Catalytically Active (111) Surface Structures. Journal of Physical Chemistry C, 2007, 111, 12243-12253.	1.5	136
47	Shaping binary metal nanocrystals through epitaxial seeded growth. Nature Materials, 2007, 6, 692-697.	13.3	1,156
48	Carbon Monoxide Adsorption and Oxidation on Monolayer Films of Cubic Platinum Nanoparticles Investigated by Infraredâ^'Visible Sum Frequency Generation Vibrational Spectroscopy. Journal of Physical Chemistry B, 2006, 110, 15920-15925.	1.2	58
49	Probing the Interaction of Poly(vinylpyrrolidone) with Platinum Nanocrystals by UVâ^'Raman and FTIR. Journal of Physical Chemistry B, 2006, 110, 23052-23059.	1.2	453
50	Morphological Control of Catalytically Active Platinum Nanocrystals. Angewandte Chemie - International Edition, 2006, 45, 7824-7828.	7.2	608
51	Transitioning rationally designed catalytic materials to real â€œworkingâ€•catalysts produced at commercial scale: nanoparticle materials. Catalysis, 0, , 213-281.	0.6	12