

Emma Lovell

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

2,432
citations

201385

27
h-index

288905

40
g-index

40
all docs

40
docs citations

40
times ranked

3027
citing authors

#	ARTICLE	IF	CITATIONS
1	A sea-change: manganese doped nickel/nickel oxide electrocatalysts for hydrogen generation from seawater. <i>Energy and Environmental Science</i> , 2018, 11, 1898-1910.	15.6	192
2	A hybrid plasma electrocatalytic process for sustainable ammonia production. <i>Energy and Environmental Science</i> , 2021, 14, 865-872.	15.6	164
3	Nitrate reduction to ammonium: from CuO defect engineering to waste NO _x -to-NH ₃ economic feasibility. <i>Energy and Environmental Science</i> , 2021, 14, 3588-3598.	15.6	161
4	A review on photo-thermal catalytic conversion of carbon dioxide. <i>Green Energy and Environment</i> , 2017, 2, 204-217.	4.7	153
5	Metal-Organic Framework Decorated Cuprous Oxide Nanowires for Long-lived Charges Applied in Selective Photocatalytic CO ₂ Reduction to CH ₄ . <i>Angewandte Chemie - International Edition</i> , 2021, 60, 8455-8459.	7.2	152
6	Elucidating the impact of Ni and Co loading on the selectivity of bimetallic NiCo catalysts for dry reforming of methane. <i>Chemical Engineering Journal</i> , 2018, 352, 572-580.	6.6	144
7	Electroreduction of CO ₂ to CO on a Mesoporous Carbon Catalyst with Progressively Removed Nitrogen Moieties. <i>ACS Energy Letters</i> , 2018, 3, 2292-2298.	8.8	129
8	Bio-oil upgrading with catalytic pyrolysis of biomass using Copper/zeolite-Nickel/zeolite and Copper-Nickel/zeolite catalysts. <i>Bioresource Technology</i> , 2019, 279, 404-409.	4.8	94
9	Modulating Activity through Defect Engineering of Tin Oxides for Electrochemical CO ₂ Reduction. <i>Advanced Science</i> , 2019, 6, 1900678.	5.6	92
10	CO ₂ reforming of methane over MCM-41-supported nickel catalysts: altering support acidity by one-pot synthesis at room temperature. <i>Applied Catalysis A: General</i> , 2014, 473, 51-58.	2.2	82
11	Plasmacatalytic bubbles using CeO ₂ for organic pollutant degradation. <i>Chemical Engineering Journal</i> , 2021, 403, 126413.	6.6	79
12	Enhancing Ni-SiO ₂ catalysts for the carbon dioxide reforming of methane: Reduction-oxidation-reduction pre-treatment. <i>Applied Catalysis B: Environmental</i> , 2016, 199, 155-165.	10.8	71
13	Mixed-Metal MOF ₇₄ Templated Catalysts for Efficient Carbon Dioxide Capture and Methanation. <i>Advanced Functional Materials</i> , 2021, 31, 2007624.	7.8	65
14	Anchoring Sites Engineering in Single-Atom Catalysts for Highly Efficient Electrochemical Energy Conversion Reactions. <i>Advanced Materials</i> , 2021, 33, e2102801.	11.1	64
15	Ni-SiO ₂ Catalysts for the Carbon Dioxide Reforming of Methane: Varying Support Properties by Flame Spray Pyrolysis. <i>Molecules</i> , 2015, 20, 4594-4609.	1.7	57
16	Low-Temperature CO ₂ Methanation: Synergistic Effects in Plasma-Ni Hybrid Catalytic System. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 1888-1898.	3.2	54
17	Uncovering Atomic-Scale Stability and Reactivity in Engineered Zinc Oxide Electrocatalysts for Controllable Syngas Production. <i>Advanced Energy Materials</i> , 2020, 10, 2001381.	10.2	51
18	Oxygen-Vacancy Engineering of Cerium-Oxide Nanoparticles for Antioxidant Activity. <i>ACS Omega</i> , 2019, 4, 9473-9479.	1.6	47

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19	Enhanced bio-oil deoxygenation activity by Cu/zeolite and Ni/zeolite catalysts in combined in-situ and ex-situ biomass pyrolysis. <i>Journal of Analytical and Applied Pyrolysis</i> , 2019, 140, 148-160.	2.6	46
20	Emerging material engineering strategies for amplifying photothermal heterogeneous CO ₂ catalysis. <i>Journal of Energy Chemistry</i> , 2021, 59, 108-125.	7.1	46
21	Role of support in photothermal carbon dioxide hydrogenation catalysed by Ni/Ce _x Ti _y O ₂ . <i>Progress in Natural Science: Materials International</i> , 2018, 28, 168-177.	1.8	44
22	Plasmonic effects on CO ₂ reduction over bimetallic Ni-Au catalysts. <i>Chemical Engineering Science</i> , 2019, 194, 94-104.	1.9	42
23	Flame spray pyrolysis-designed silica/ceria-zirconia supports for the carbon dioxide reforming of methane. <i>Applied Catalysis A: General</i> , 2017, 546, 47-57.	2.2	41
24	Light-Induced Synergistic Multidefect Sites on TiO ₂ /SiO ₂ Composites for Catalytic Dehydrogenation. <i>ACS Catalysis</i> , 2019, 9, 2674-2684.	5.5	41
25	3D Heterostructured Copper Electrode for Conversion of Carbon Dioxide to Alcohols at Low Overpotentials. <i>Advanced Sustainable Systems</i> , 2019, 3, 1800064.	2.7	37
26	From passivation to activation – tunable nickel/nickel oxide for hydrogen evolution electrocatalysis. <i>Chemical Communications</i> , 2020, 56, 1709-1712.	2.2	35
27	Light-Enhanced CO ₂ Reduction to CH ₄ using Nonprecious Transition-Metal Catalysts. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 5056-5066.	3.2	29
28	Asymmetrical Double Flame Spray Pyrolysis-Designed SiO ₂ /Ce _{0.7} Zr _{0.3} O ₂ for the Dry Reforming of Methane. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 25766-25777.	4.0	26
29	Effect of Metal-Support Interactions in Mixed Co/Al Catalysts for Dry Reforming of Methane. <i>ChemCatChem</i> , 2019, 11, 3432-3440.	1.8	26
30	Unifying double flame spray pyrolysis with lanthanum doping to restrict cobalt-aluminate formation in Co/Al ₂ O ₃ catalysts for the dry reforming of methane. <i>Catalysis Science and Technology</i> , 2019, 9, 4970-4980.	2.1	23
31	Silver-Based Plasmonic Catalysts for Carbon Dioxide Reduction. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 1879-1887.	3.2	23
32	Manipulating ceria-titania binary oxide features and their impact as nickel catalyst supports for low temperature steam reforming of methane. <i>Applied Catalysis A: General</i> , 2017, 530, 111-124.	2.2	22
33	Photoenhanced CO ₂ methanation over La ₂ O ₃ promoted Co/TiO ₂ catalysts. <i>Applied Catalysis B: Environmental</i> , 2021, 294, 120248.	10.8	21
34	Altering the influence of ceria oxygen vacancies in Ni _x /Ce _y /SiO ₂ for photothermal CO ₂ methanation. <i>Catalysis Science and Technology</i> , 2021, 11, 5297-5309.	2.1	17
35	Cooperative defect-enriched SiO ₂ for oxygen activation and organic dehydrogenation. <i>Journal of Catalysis</i> , 2019, 376, 168-179.	3.1	16
36	Plasma Treating Mixed Metal Oxides to Improve Oxidative Performance via Defect Generation. <i>Materials</i> , 2019, 12, 2756.	1.3	15

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37	Metal-Organic Framework Decorated Cuprous Oxide Nanowires for Long-Lived Charges Applied in Selective Photocatalytic CO ₂ Reduction to CH ₄ . <i>Angewandte Chemie</i> , 2021, 133, 8536-8540.	1.6	11
38	Plasma-Induced Catalyst Support Defects for the Photothermal Methanation of Carbon Dioxide. <i>Materials</i> , 2021, 14, 4195.	1.3	11
39	Two Steps Back, One Leap Forward: Synergistic Energy Conversion in Plasmonic and Plasma Catalysis. <i>ACS Energy Letters</i> , 2022, 7, 300-309.	8.8	7
40	Complexities of Capturing Light for Enhancing Thermal Catalysis. <i>Catalysis Letters</i> , 2022, 152, 619-628.	1.4	2