Emma Lovell

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/6715190/publications.pdf

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	Complexities of Capturing Light for Enhancing Thermal Catalysis. Catalysis Letters, 2022, 152, 619-628.	1.4	2
2	Two Steps Back, One Leap Forward: Synergistic Energy Conversion in Plasmonic and Plasma Catalysis. ACS Energy Letters, 2022, 7, 300-309.	8.8	7
3	Plasmacatalytic bubbles using CeO2 for organic pollutant degradation. Chemical Engineering Journal, 2021, 403, 126413.	6.6	79
4	Mixedâ€Metal MOFâ€74 Templated Catalysts for Efficient Carbon Dioxide Capture and Methanation. Advanced Functional Materials, 2021, 31, 2007624.	7.8	65
5	Emerging material engineering strategies for amplifying photothermal heterogeneous CO2 catalysis. Journal of Energy Chemistry, 2021, 59, 108-125.	7.1	46
6	Nitrate reduction to ammonium: from CuO defect engineering to waste NO_x-to-NH₃economic feasibility. Energy and Environmental Science, 2021, 14, 3588-3598.	15.6	161
7	Altering the influence of ceria oxygen vacancies in Ni/Ce_xSi_yO₂for photothermal CO₂methanation. Catalysis Science and Technology, 2021, 11, 5297-5309.	2.1	17
8	A hybrid plasma electrocatalytic process for sustainable ammonia production. Energy and Environmental Science, 2021, 14, 865-872.	15.6	164
9	Metalâ€“Organic Framework Decorated Cuprous Oxide Nanowires for Longâ€lived Charges Applied in Selective Photocatalytic CO₂ Reduction to CH₄. Angewandte Chemie, 2021, 133, 8536-8540.	1.6	11
10	Metalâ€“Organic Framework Decorated Cuprous Oxide Nanowires for Longâ€lived Charges Applied in Selective Photocatalytic CO₂ Reduction to CH₄. Angewandte Chemie - International Edition, 2021, 60, 8455-8459.	7.2	152
11	Plasma-Induced Catalyst Support Defects for the Photothermal Methanation of Carbon Dioxide. Materials, 2021, 14, 4195.	1.3	11
12	Anchoring Sites Engineering in Singleâ€Atom Catalysts for Highly Efficient Electrochemical Energy Conversion Reactions. Advanced Materials, 2021, 33, e2102801.	11.1	64
13	Photoenhanced CO2 methanation over La2O3 promoted Co/TiO2 catalysts. Applied Catalysis B: Environmental, 2021, 294, 120248.	10.8	21
14	From passivation to activation â€“ tunable nickel/nickel oxide for hydrogen evolution electrocatalysis. Chemical Communications, 2020, 56, 1709-1712.	2.2	35
15	Low-Temperature CO₂ Methanation: Synergistic Effects in Plasma-Ni Hybrid Catalytic System. ACS Sustainable Chemistry and Engineering, 2020, 8, 1888-1898.	3.2	54
16	Uncovering Atomicâ€Scale Stability and Reactivity in Engineered Zinc Oxide Electrocatalysts for Controllable Syngas Production. Advanced Energy Materials, 2020, 10, 2001381.	10.2	51
17	Light-Enhanced CO₂ Reduction to CH₄ using Nonprecious Transition-Metal Catalysts. ACS Sustainable Chemistry and Engineering, 2020, 8, 5056-5066.	3.2	29
18	Silver-Based Plasmonic Catalysts for Carbon Dioxide Reduction. ACS Sustainable Chemistry and Engineering, 2020, 8, 1879-1887.	3.2	23

#	Article	IF	Citations
19	3D Heterostructured Copper Electrode for Conversion of Carbon Dioxide to Alcohols at Low Overpotentials. Advanced Sustainable Systems, 2019, 3, 1800064.	2.7	37
20	Unifying double flame spray pyrolysis with lanthanum doping to restrict cobaltâ€“aluminate formation in Co/Al₂O₃ catalysts for the dry reforming of methane. Catalysis Science and Technology, 2019, 9, 4970-4980.	2.1	23
21	Cooperative defect-enriched SiO2 for oxygen activation and organic dehydrogenation. Journal of Catalysis, 2019, 376, 168-179.	3.1	16
22	Asymmetrical Double Flame Spray Pyrolysis-Designed SiO2/Ce0.7Zr0.3O2 for the Dry Reforming of Methane. ACS Applied Materials & Interfaces, 2019, 11, 25766-25777.	4.0	26
23	Modulating Activity through Defect Engineering of Tin Oxides for Electrochemical CO₂ Reduction. Advanced Science, 2019, 6, 1900678.	5.6	92
24	Plasma Treating Mixed Metal Oxides to Improve Oxidative Performance via Defect Generation. Materials, 2019, 12, 2756.	1.3	15
25	Bio-oil upgrading with catalytic pyrolysis of biomass using Copper/zeolite-Nickel/zeolite and Copper-Nickel/zeolite catalysts. Bioresource Technology, 2019, 279, 404-409.	4.8	94
26	Oxygen-Vacancy Engineering of Cerium-Oxide Nanoparticles for Antioxidant Activity. ACS Omega, 2019, 4, 9473-9479.	1.6	47
27	Effect of Metalâ€Support Interactions in Mixed Co/Al Catalysts for Dry Reforming of Methane. ChemCatChem, 2019, 11, 3432-3440.	1.8	26
28	Enhanced bio-oil deoxygenation activity by Cu/zeolite and Ni/zeolite catalysts in combined in-situ and ex-situ biomass pyrolysis. Journal of Analytical and Applied Pyrolysis, 2019, 140, 148-160.	2.6	46
29	Light-Induced Synergistic Multidefect Sites on TiO₂/SiO₂ Composites for Catalytic Dehydrogenation. ACS Catalysis, 2019, 9, 2674-2684.	5.5	41
30	Plasmonic effects on CO2 reduction over bimetallic Ni-Au catalysts. Chemical Engineering Science, 2019, 194, 94-104.	1.9	42
31	Role of support in photothermal carbon dioxide hydrogenation catalysed by Ni/CexTiyO2. Progress in Natural Science: Materials International, 2018, 28, 168-177.	1.8	44
32	Electroreduction of CO₂ to CO on a Mesoporous Carbon Catalyst with Progressively Removed Nitrogen Moieties. ACS Energy Letters, 2018, 3, 2292-2298.	8.8	129
33	Elucidating the impact of Ni and Co loading on the selectivity of bimetallic NiCo catalysts for dry reforming of methane. Chemical Engineering Journal, 2018, 352, 572-580.	6.6	144
34	A sea-change: manganese doped nickel/nickel oxide electrocatalysts for hydrogen generation from seawater. Energy and Environmental Science, 2018, 11, 1898-1910.	15.6	192
35	A review on photo-thermal catalytic conversion of carbon dioxide. Green Energy and Environment, 2017, 2, 204-217.	4.7	153
36	Flame spray pyrolysis-designed silica/ceria-zirconia supports for the carbon dioxide reforming of methane. Applied Catalysis A: General, 2017, 546, 47-57.	2.2	41

#	Article	IF	Citations
37	Manipulating ceria-titania binary oxide features and their impact as nickel catalyst supports for low temperature steam reforming of methane. Applied Catalysis A: General, 2017, 530, 111-124.	2.2	22
38	Enhancing Ni-SiO 2 catalysts for the carbon dioxide reforming of methane: Reduction-oxidation-reduction pre-treatment. Applied Catalysis B: Environmental, 2016, 199, 155-165.	10.8	71
39	Ni-SiO2 Catalysts for the Carbon Dioxide Reforming of Methane: Varying Support Properties by Flame Spray Pyrolysis. Molecules, 2015, 20, 4594-4609.	1.7	57
40	CO2 reforming of methane over MCM-41-supported nickel catalysts: altering support acidity by one-pot synthesis at room temperature. Applied Catalysis A: General, 2014, 473, 51-58.	2.2	82