

Wilson A Smith

List of Publications by Year in descending order

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times ranked

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#	ARTICLE	IF	CITATIONS
1	CO ₂ reduction on gas-diffusion electrodes and why catalytic performance must be assessed at commercially-relevant conditions. <i>Energy and Environmental Science</i> , 2019, 12, 1442-1453.	30.8	692
2	Controllable Hydrocarbon Formation from the Electrochemical Reduction of CO ₂ over Cu Nanowire Arrays. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 6680-6684.	13.8	471
3	In Situ Observation of Active Oxygen Species in Fe-Containing Ni-Based Oxygen Evolution Catalysts: The Effect of pH on Electrochemical Activity. <i>Journal of the American Chemical Society</i> , 2015, 137, 15112-15121.	13.7	459
4	Photoelectrochemical Study of Nanostructured ZnO Thin Films for Hydrogen Generation from Water Splitting. <i>Advanced Functional Materials</i> , 2009, 19, 1849-1856.	14.9	436
5	Selective and Efficient Reduction of Carbon Dioxide to Carbon Monoxide on Oxide-Derived Nanostructured Silver Electrocatalysts. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 9748-9752.	13.8	422
6	Photoelectrochemical Water Splitting Using Dense and Aligned TiO ₂ Nanorod Arrays. <i>Small</i> , 2009, 5, 104-111.	10.0	380
7	Facet-Dependent Selectivity of Cu Catalysts in Electrochemical CO ₂ Reduction at Commercially Viable Current Densities. <i>ACS Catalysis</i> , 2020, 10, 4854-4862.	11.2	331
8	Probing the Reaction Mechanism of CO ₂ Electroreduction over Ag Films via Operando Infrared Spectroscopy. <i>ACS Catalysis</i> , 2017, 7, 606-612.	11.2	327
9	Pathways to electrochemical solar-hydrogen technologies. <i>Energy and Environmental Science</i> , 2018, 11, 2768-2783.	30.8	238
10	Role of the Carbon-Based Gas Diffusion Layer on Flooding in a Gas Diffusion Electrode Cell for Electrochemical CO ₂ Reduction. <i>ACS Energy Letters</i> , 2021, 6, 33-40.	17.4	221
11	Photocharged BiVO ₄ photoanodes for improved solar water splitting. <i>Journal of Materials Chemistry A</i> , 2016, 4, 2919-2926.	10.3	203
12	In Situ Infrared Spectroscopy Reveals Persistent Alkalinity near Electrode Surfaces during CO ₂ Electroreduction. <i>Journal of the American Chemical Society</i> , 2019, 141, 15891-15900.	13.7	191
13	Interfacial engineering of metal-insulator-semiconductor junctions for efficient and stable photoelectrochemical water oxidation. <i>Nature Communications</i> , 2017, 8, 15968.	12.8	177
14	Plasmonic nanoparticle-semiconductor composites for efficient solar water splitting. <i>Journal of Materials Chemistry A</i> , 2016, 4, 17891-17912.	10.3	165
15	Interfacial band-edge energetics for solar fuels production. <i>Energy and Environmental Science</i> , 2015, 8, 2851-2862.	30.8	163
16	Selective electrochemical reduction of CO ₂ to CO on CuO-derived Cu nanowires. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 20861-20867.	2.8	159
17	Near-complete suppression of surface losses and total internal quantum efficiency in BiVO ₄ photoanodes. <i>Energy and Environmental Science</i> , 2017, 10, 1517-1529.	30.8	159
18	Introductory Guide to Assembling and Operating Gas Diffusion Electrodes for Electrochemical CO ₂ Reduction. <i>ACS Energy Letters</i> , 2019, 4, 639-643.	17.4	158

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19	Bipolar Membrane-Assisted Solar Water Splitting in Optimal pH. <i>Advanced Energy Materials</i> , 2016, 6, 1600100.	19.5	156
20	Pathways to Industrial-Scale Fuel Out of Thin Air from CO ₂ Electrolysis. <i>Joule</i> , 2019, 3, 1822-1834.	24.0	137
21	In Situ Fabrication and Reactivation of Highly Selective and Stable Ag Catalysts for Electrochemical CO ₂ Conversion. <i>ACS Energy Letters</i> , 2018, 3, 1301-1306.	17.4	136
22	Synergistic Electrochemical CO ₂ Reduction and Water Oxidation with a Bipolar Membrane. <i>ACS Energy Letters</i> , 2016, 1, 1143-1148.	17.4	134
23	Quasi-core-shell TiO ₂ /WO ₃ and WO ₃ /TiO ₂ nanorod arrays fabricated by glancing angle deposition for solar water splitting. <i>Journal of Materials Chemistry</i> , 2011, 21, 10792.	6.7	127
24	A Robust, Scalable Platform for the Electrochemical Conversion of CO ₂ to Formate: Identifying Pathways to Higher Energy Efficiencies. <i>ACS Energy Letters</i> , 2020, 5, 1825-1833.	17.4	126
25	<i>Operando</i> EXAFS study reveals presence of oxygen in oxide-derived silver catalysts for electrochemical CO ₂ reduction. <i>Journal of Materials Chemistry A</i> , 2019, 7, 2597-2607.	10.3	125
26	Modeling the electrical double layer to understand the reaction environment in a CO ₂ electrocatalytic system. <i>Energy and Environmental Science</i> , 2019, 12, 3380-3389.	30.8	125
27	Hydrocarbon Synthesis via Photoenzymatic Decarboxylation of Carboxylic Acids. <i>Journal of the American Chemical Society</i> , 2019, 141, 3116-3120.	13.7	123
28	Selective and Efficient Reduction of Carbon Dioxide to Carbon Monoxide on Oxide-Derived Nanostructured Silver Electrocatalysts. <i>Angewandte Chemie</i> , 2016, 128, 9900-9904.	2.0	117
29	Liquid-Solid Boundaries Dominate Activity of CO ₂ Reduction on Gas-Diffusion Electrodes. <i>ACS Catalysis</i> , 2020, 10, 14093-14106.	11.2	114
30	Controllable Hydrocarbon Formation from the Electrochemical Reduction of CO ₂ over Cu Nanowire Arrays. <i>Angewandte Chemie</i> , 2016, 128, 6792-6796.	2.0	112
31	Photo-assisted water splitting with bipolar membrane induced pH gradients for practical solar fuel devices. <i>Journal of Materials Chemistry A</i> , 2015, 3, 19556-19562.	10.3	104
32	Electrochemical reduction of CO ₂ on compositionally variant Au-Pt bimetallic thin films. <i>Nano Energy</i> , 2017, 42, 51-57.	16.0	99
33	Hot Carrier Generation and Extraction of Plasmonic Alloy Nanoparticles. <i>ACS Photonics</i> , 2017, 4, 1146-1152.	6.6	97
34	Emerging Postsynthetic Improvements of BiVO ₄ Photoanodes for Solar Water Splitting. <i>ACS Energy Letters</i> , 2018, 3, 112-124.	17.4	97
35	Ion transport mechanisms in bipolar membranes for (photo)electrochemical water splitting. <i>Sustainable Energy and Fuels</i> , 2018, 2, 2006-2015.	4.9	97
36	Lateral Adsorbate Interactions Inhibit HCOO ⁻ while Promoting CO Selectivity for CO ₂ Electrocatalysis on Silver. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 1345-1349.	13.8	93

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37	Enhancement of the Photoelectrochemical Performance of CuWO ₄ Thin Films for Solar Water Splitting by Plasmonic Nanoparticle Functionalization. <i>Journal of Physical Chemistry C</i> , 2015, 119, 2096-2104.	3.1	90
38	Cation-Driven Increases of CO ₂ Utilization in a Bipolar Membrane Electrode Assembly for CO ₂ Electrolysis. <i>ACS Energy Letters</i> , 2021, 6, 4291-4298.	17.4	88
39	Insights and Challenges for Applying Bipolar Membranes in Advanced Electrochemical Energy Systems. <i>ACS Energy Letters</i> , 2021, 6, 2539-2548.	17.4	86
40	Maximizing Ag Utilization in High-Rate CO ₂ Electrochemical Reduction with a Coordination Polymer-Mediated Gas Diffusion Electrode. <i>ACS Energy Letters</i> , 2019, 4, 2024-2031.	17.4	85
41	Enhanced Photocatalytic Activity by Aligned WO ₃ /TiO ₂ Two-Layer Nanorod Arrays. <i>Journal of Physical Chemistry C</i> , 2008, 112, 19635-19641.	3.1	84
42	Superior photocatalytic performance by vertically aligned core-shell TiO ₂ /WO ₃ nanorod arrays. <i>Catalysis Communications</i> , 2009, 10, 1117-1121.	3.3	83
43	Electrochemical CO ₂ reduction on nanostructured metal electrodes: fact or defect?. <i>Chemical Science</i> , 2020, 11, 1738-1749.	7.4	83
44	Improved charge separation via Fe-doping of copper tungstate photoanodes. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 9857-9866.	2.8	81
45	Suppressing H ₂ Evolution and Promoting Selective CO ₂ Electroreduction to CO at Low Overpotentials by Alloying Au with Pd. <i>ACS Catalysis</i> , 2019, 9, 3527-3536.	11.2	79
46	Solar Water Splitting Combining a BiVO ₄ Light Absorber with a Ru-Based Molecular Cocatalyst. <i>Journal of Physical Chemistry C</i> , 2015, 119, 7275-7281.	3.1	75
47	Extracting large photovoltages from a-SiC photocathodes with an amorphous TiO ₂ front surface field layer for solar hydrogen evolution. <i>Energy and Environmental Science</i> , 2015, 8, 1585-1593.	30.8	74
48	Electronic Effects Determine the Selectivity of Planar Au-Cu Bimetallic Thin Films for Electrochemical CO ₂ Reduction. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 16546-16555.	8.0	71
49	The effect of Ag nanoparticle loading on the photocatalytic activity of TiO ₂ nanorod arrays. <i>Chemical Physics Letters</i> , 2010, 485, 171-175.	2.6	68
50	In Situ ATR-SEIRAS of Carbon Dioxide Reduction at a Plasmonic Silver Cathode. <i>Journal of the American Chemical Society</i> , 2020, 142, 11750-11762.	13.7	68
51	In Situ Infrared Spectroscopy Applied to the Study of the Electrocatalytic Reduction of CO ₂ : Theory, Practice and Challenges. <i>ChemPhysChem</i> , 2019, 20, 2904-2925.	2.1	66
52	Control of the visible and UV light water splitting and photocatalysis of nitrogen doped TiO ₂ thin films deposited by reactive magnetron sputtering. <i>Applied Catalysis B: Environmental</i> , 2014, 144, 12-21.	20.2	59
53	Oxynitrogenography: Controlled Synthesis of Single-Phase Tantalum Oxynitride Photoabsorbers. <i>Chemistry of Materials</i> , 2015, 27, 7091-7099.	6.7	59
54	Process modeling, techno-economic assessment, and life cycle assessment of the electrochemical reduction of CO ₂ : a review. <i>IScience</i> , 2021, 24, 102813.	4.1	59

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55	General Considerations for Improving Photovoltage in Metal-Insulator-Semiconductor Photoanodes. <i>Journal of Physical Chemistry C</i> , 2018, 122, 5462-5471.	3.1	54
56	Semiconducting properties of spinel tin nitride and other IV_3N_4 polymorphs. <i>Journal of Materials Chemistry C</i> , 2015, 3, 1389-1396.	5.5	49
57	Along the Channel Gradients Impact on the Spatioactivity of Gas Diffusion Electrodes at High Conversions during CO_2 Electroreduction. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 1286-1296.	6.7	47
58	Efficient Electrochemical Production of Syngas from CO_2 and H_2O by using a Nanostructured Ag_3N_4 Catalyst. <i>ChemElectroChem</i> , 2016, 3, 1497-1502.	3.4	46
59	Electrochemical impedance spectroscopy as a performance indicator of water dissociation in bipolar membranes. <i>Journal of Materials Chemistry A</i> , 2019, 7, 19060-19069.	10.3	45
60	High-Performance Bipolar Membrane Development for Improved Water Dissociation. <i>ACS Applied Polymer Materials</i> , 2020, 2, 4559-4569.	4.4	45
61	Reduced Ion Crossover in Bipolar Membrane Electrolysis <i>via</i> Increased Current Density, Molecular Size, and Valence. <i>ACS Applied Energy Materials</i> , 2020, 3, 5804-5812.	5.1	45
62	Structural and optical characterization of WO_3 nanorods/films prepared by oblique angle deposition. <i>Journal of Vacuum Science & Technology B</i> , 2007, 25, 1875-1881.	1.3	44
63	Acrylic Acid Polymer Coatings on Silk Fibers by Room-temperature APGD Plasma Jets. <i>Plasma Processes and Polymers</i> , 2011, 8, 701-708.	3.0	42
64	Solar Redox Flow Batteries with Organic Redox Couples in Aqueous Electrolytes: A Minireview. <i>Journal of Physical Chemistry C</i> , 2018, 122, 25729-25740.	3.1	42
65	Orientation of a bipolar membrane determines the dominant ion and carbonic species transport in membrane electrode assemblies for CO_2 reduction. <i>Journal of Materials Chemistry A</i> , 2021, 9, 11179-11186.	10.3	40
66	A novel approach for the preparation of textured CuO thin films from electrodeposited $CuCl$ and $CuBr$. <i>Journal of Electroanalytical Chemistry</i> , 2014, 717-718, 243-249.	3.8	37
67	Gradient dopant profiling and spectral utilization of monolithic thin-film silicon photoelectrochemical tandem devices for solar water splitting. <i>Journal of Materials Chemistry A</i> , 2015, 3, 4155-4162.	10.3	35
68	Photoelectrochemical water splitting with porous $\gamma-Fe_2O_3$ thin films prepared from Fe/Fe-oxide nanoparticles. <i>Applied Catalysis A: General</i> , 2016, 523, 130-138.	4.3	35
69	Engineering the kinetics and interfacial energetics of Ni/Ni-Mo catalyzed amorphous silicon carbide photocathodes in alkaline media. <i>Journal of Materials Chemistry A</i> , 2016, 4, 6842-6852.	10.3	34
70	The Role of Size and Dimerization of Decorating Plasmonic Silver Nanoparticles on the Photoelectrochemical Solar Water Splitting Performance of $BiVO_4$ Photoanodes. <i>ChemNanoMat</i> , 2016, 2, 739-747.	2.8	33
71	Au Dendrite Electrocatalysts for CO_2 Electrolysis. <i>Journal of Physical Chemistry C</i> , 2018, 122, 10006-10016.	3.1	30
72	Chemisorption of Anionic Species from the Electrolyte Alters the Surface Electronic Structure and Composition of Photocharged $BiVO_4$. <i>Chemistry of Materials</i> , 2019, 31, 7453-7462.	6.7	30

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73	Operando Infrared Spectroscopy Reveals the Dynamic Nature of Semiconductor–Electrolyte Interface in Multinary Metal Oxide Photoelectrodes. <i>Journal of the American Chemical Society</i> , 2021, 143, 18581-18591.	13.7	28
74	Lateral Adsorbate Interactions Inhibit HCOO [•] while Promoting CO Selectivity for CO ₂ Electrocatalysis on Silver. <i>Angewandte Chemie</i> , 2019, 131, 1359-1363.	2.0	25
75	Modeling the Local Environment within Porous Electrode during Electrochemical Reduction of Bicarbonate. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 10461-10473.	3.7	25
76	Overcoming Nitrogen Reduction to Ammonia Detection Challenges: The Case for Leapfrogging to Gas Diffusion Electrode Platforms. <i>ACS Catalysis</i> , 2022, 12, 5726-5735.	11.2	24
77	Characterizing CO ₂ Reduction Catalysts on Gas Diffusion Electrodes: Comparing Activity, Selectivity, and Stability of Transition Metal Catalysts. <i>ACS Applied Energy Materials</i> , 2022, 5, 5983-5994.	5.1	23
78	An electrodynamically confined single ZnO tetrapod laser. <i>Applied Physics Letters</i> , 2008, 93, 121102.	3.3	22
79	Competition and selectivity during parallel evolution of bromine, chlorine and oxygen on IrOx electrodes. <i>Journal of Catalysis</i> , 2020, 389, 99-110.	6.2	21
80	Visible Light Water Splitting via Oxidized TiN Thin Films. <i>Journal of Physical Chemistry C</i> , 2012, 116, 15855-15866.	3.1	19
81	High Indirect Energy Consumption in AEM-Based CO ₂ Electrolyzers Demonstrates the Potential of Bipolar Membranes. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 557-563.	8.0	18
82	Effect of total gas pressure and O ₂ /N ₂ flow rate on the nanostructure of N-doped TiO ₂ thin films deposited by reactive sputtering. <i>Thin Solid Films</i> , 2014, 552, 10-17.	1.8	17
83	A thin-film silicon/silicon hetero-junction hybrid solar cell for photoelectrochemical water-reduction applications. <i>Solar Energy Materials and Solar Cells</i> , 2016, 150, 82-87.	6.2	17
84	The scaling of the photocatalytic decay rate with the length of aligned TiO ₂ nanorod arrays. <i>Chemical Physics Letters</i> , 2009, 479, 270-273.	2.6	16
85	Accelerating ¹ H NMR Detection of Aqueous Ammonia. <i>ACS Omega</i> , 2021, 6, 5698-5704.	3.5	16
86	Unravelling the practical solar charging performance limits of redox flow batteries based on a single photon device system. <i>Sustainable Energy and Fuels</i> , 2019, 3, 2399-2408.	4.9	15
87	Water and Solute Activities Regulate CO ₂ Reduction in Gas-Diffusion Electrodes. <i>Journal of Physical Chemistry C</i> , 2021, 125, 13085-13095.	3.1	15
88	Photoelectrocatalytic oxidation of phenol for water treatment using a BiVO ₄ thin-film photoanode. <i>Journal of Materials Research</i> , 2016, 31, 2627-2639.	2.6	14
89	Design principles for efficient photoelectrodes in solar rechargeable redox flow cell applications. <i>Communications Materials</i> , 2020, 1, .	6.9	14
90	Copper and silver gas diffusion electrodes performing CO ₂ reduction studied through <i>operando</i> X-ray absorption spectroscopy. <i>Catalysis Science and Technology</i> , 2020, 10, 5870-5885.	4.1	13

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91	Polymer Modification of Surface Electronic Properties of Electrocatalysts. ACS Energy Letters, 2022, 7, 1586-1593.	17.4	13
92	Control of the optical and crystalline properties of TiO ₂ in visible-light active TiO ₂ /TiN bi-layer thin-film stacks. Journal of Applied Physics, 2012, 111, .	2.5	11
93	Photoelectrochemical Cell Design, Efficiency, Definitions, Standards, and Protocols. , 2016, , 163-197.		10
94	Designing a hybrid thin-film/wafer silicon triple photovoltaic junction for solar water splitting. Progress in Photovoltaics: Research and Applications, 2019, 27, 245-254.	8.1	10
95	Competition and Interhalogen Formation During Parallel Electrocatalytic Oxidation of Bromide and Chloride on Pt. Journal of the Electrochemical Society, 2020, 167, 046505.	2.9	10
96	Electrochemical CO ₂ Reduction Over Bimetallic Au-Sn Thin Films: Comparing Activity and Selectivity against Morphological, Compositional, and Electronic Differences. Journal of Physical Chemistry C, 2020, 124, 14573-14580.	3.1	9
97	Operando Topography and Mechanical Property Mapping of CO ₂ Reduction Gas-Diffusion Electrodes Operating at High Current Densities. Journal of the Electrochemical Society, 2021, 168, 044505.	2.9	9
98	The effect of catholyte and catalyst layer binders on CO ₂ electroreduction selectivity. Chem Catalysis, 2022, 2, 400-421.	6.1	9
99	Hidden figures of photo-charging: a thermo-electrochemical approach for a solar-rechargeable redox flow cell system. Sustainable Energy and Fuels, 2020, 4, 2650-2655.	4.9	8
100	Light induced formation of a surface heterojunction in photocharged CuWO ₄ photoanodes. Faraday Discussions, 2019, 215, 175-191.	3.2	7
101	Tailored energy level alignment at MoOX/GaP interface for solar-driven redox flow battery application. Journal of Chemical Physics, 2020, 152, 124710.	3.0	7
102	An economic analysis of the role of materials, system engineering, and performance in electrochemical carbon dioxide conversion to formate. Journal of Cleaner Production, 2022, 351, 131564.	9.3	7
103	Fabricating a reactive surface on the fibroin film by a room-temperature plasma jet array for biomolecule immobilization. Chinese Physics B, 2012, 21, 105201.	1.4	6
104	Improving the Back Surface Field on an Amorphous Silicon Carbide Thin-Film Photocathode for Solar Water Splitting. ChemSusChem, 2018, 11, 1797-1804.	6.8	6
105	Synthetic approaches to artificial photosynthesis: general discussion. Faraday Discussions, 2019, 215, 242-281.	3.2	5
106	Nanostructured Catalysts for the Electrochemical Reduction of CO ₂ . Nanostructure Science and Technology, 2017, , 337-373.	0.1	4
107	Assessing Silver Palladium Alloys for Electrochemical CO ₂ Reduction in Membrane Electrode Assemblies. ChemElectroChem, 2021, 8, 4515-4521.	3.4	4
108	Investigation of Terahertz Emission from BiVO ₄ /Au Thin Film Interface. Journal of Infrared, Millimeter, and Terahertz Waves, 2015, 36, 1033-1042.	2.2	3

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109	Treatment of Organic Pollutants Using a Solar Energy Driven Photooxidation Device. <i>Advanced Sustainable Systems</i> , 2017, 1, 1700010.	5.3	2
110	Demonstrator devices for artificial photosynthesis: general discussion. <i>Faraday Discussions</i> , 2019, 215, 345-363.	3.2	2
111	Hetero-structured nano-photocatalysts fabricated by dynamic shadowing growth. <i>Proceedings of SPIE</i> , 2010, , .	0.8	1
112	Solar fuel production by using PV/PEC junctions based on earth-abundant materials. , 2016, , .		1
113	Special issue on recent advances in energy storage and conversion devices. <i>Chemical Engineering Science</i> , 2016, 154, 1-2.	3.8	1
114	Measuring the optical properties of a trapped ZnO tetrapod. <i>Microelectronics Journal</i> , 2009, 40, 520-522.	2.0	0
115	Solar fuel production by using PV/PEC junctions based on earth-abundant materials. , 2017, , .		0
116	Beyond artificial photosynthesis: general discussion. <i>Faraday Discussions</i> , 2019, 215, 422-438.	3.2	0
117	Rücktitelbild: Lateral Adsorbate Interactions Inhibit HCOO ⁻ while Promoting CO Selectivity for CO ₂ Electro catalysis on Silver (<i>Angew. Chem.</i> 5/2019). <i>Angewandte Chemie</i> , 2019, 131, 1534-1534.	2.0	0
118	Introducing special issue on photocatalysis and photoelectrochemistry. <i>Journal of Chemical Physics</i> , 2021, 154, 190401.	3.0	0
119	Emerging collaborations at the forefront of growth in electrochemical synthesis. <i>IScience</i> , 2021, 24, 102639.	4.1	0
120	How Local Reaction and Process Conditions Influence CO ₂ Reduction to Multicarbon Products on Copper Gas-Diffusion Electrodes. <i>ECS Meeting Abstracts</i> , 2020, MA2020-01, 1515-1515.	0.0	0
121	Electrochemical AFM techniques to understand cathode topography and electrolyte solvent and solute activities. , 0, , .		0
122	The Influence of Along-the-Channel Gradients on Spatioactivity and Spatioselectivity of Gas Diffusion Electrodes during Electrochemical CO ₂ Reduction. , 0, , .		0
123	(Invited) Experimental Measurement of Spatial Activity on CO ₂ & CO Reduction Gas Diffusion Electrodes. <i>ECS Meeting Abstracts</i> , 2022, MA2022-01, 1775-1775.	0.0	0