Briana Aguila

List of Publications by Year
in descending order

65 papers	7,258 citations	66343 42 h-index	106344 65 g-index
69 all docs	69 docs citations	69 times ranked	6670 citing authors

#	Article	IF	Citations
1	Spatial Engineering Direct Cooperativity between Binding Sites for Uranium Sequestration. Advanced Science, 2021, 8, 2001573.	11.2	43
2	Nanospace Decoration with Uranyl-Specific â€œHooksâ€•for Selective Uranium Extraction from Seawater with Ultrahigh Enrichment Index. ACS Central Science, 2021, 7, 1650-1656.	11.3	49
3	Programming Covalent Organic Frameworks for Photocatalysis: Investigation of Chemical and Structural Variations. Matter, 2020, 2, 416-427.	10.0	110
4	Comparison of the use of functional porous organic polymer (POP) and natural material zeolite for nitrogen removal and recovery from source-separated urine. Journal of Environmental Chemical Engineering, 2020, 8, 104296.	6.7	13
5	A Mixedâ€Metal Porphyrinic Framework Promoting Gasâ€Phase CO₂ Photoreduction without Organic Sacrificial Agents. ChemSusChem, 2020, 13, 6273-6277.	6.8	26
6	RÃ¼cktitelbild: A Porous Organic Polymer Nanotrap for Efficient Extraction of Palladium (Angew.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.0	0
7	A Porous Organic Polymer Nanotrap for Efficient Extraction of Palladium. Angewandte Chemie, 2020, 132, 19786-19790.	2.0	10
8	A Porous Organic Polymer Nanotrap for Efficient Extraction of Palladium. Angewandte Chemie - International Edition, 2020, 59, 19618-19622.	13.8	57
9	Optimizing the performance of porous pyridinium frameworks for carbon dioxide transformation. Catalysis Today, 2020, 356, 557-562.	4.4	7
10	Tailored Porous Organic Polymers for Task-Specific Water Purification. Accounts of Chemical Research, 2020, 53, 812-821.	15.6	134
11	Design Strategies to Enhance Amidoxime Chelators for Uranium Recovery. ACS Applied Materials & Interfaces, 2019, 11, 30919-30926.	8.0	91
12	Bio-inspired creation of heterogeneous reaction vessels via polymerization of supramolecular ion pair. Nature Communications, 2019, 10, 3059.	12.8	19
13	Frontispiz: Reaction Environment Modification in Covalent Organic Frameworks for Catalytic Performance Enhancement. Angewandte Chemie, 2019, 131, .	2.0	1
14	Covalent Organic Frameworks: Opportunities of Covalent Organic Frameworks for Advanced Applications (Adv. Sci. 2/2019). Advanced Science, 2019, 6, 1970011.	11.2	14
15	Solvent-assisted coordination driven assembly of a supramolecular architecture featuring two types of connectivity from discrete nanocages. Chemical Science, 2019, 10, 6661-6665.	7.4	24
16	Frontispiece: Reaction Environment Modification in Covalent Organic Frameworks for Catalytic Performance Enhancement. Angewandte Chemie - International Edition, 2019, 58, .	13.8	0
17	Biocomposite Materials: Tuning Pore Heterogeneity in Covalent Organic Frameworks for Enhanced Enzyme Accessibility and Resistance against Denaturants (Adv. Mater. 19/2019). Advanced Materials, 2019, 31, 1970139.	21.0	0
18	Frontispiece: Photomechanical Organic Crystals as Smart Materials for Advanced Applications. Chemistry - A European Journal, 2019, 25, .	3.3	0

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19	Pore environment engineering in metalâ€“organic frameworks for efficient ethane/ethylene separation. Journal of Materials Chemistry A, 2019, 7, 13585-13590.	10.3	91
20	Tuning Pore Heterogeneity in Covalent Organic Frameworks for Enhanced Enzyme Accessibility and Resistance against Denaturants. Advanced Materials, 2019, 31, e1900008.	21.0	114
21	Reaction Environment Modification in Covalent Organic Frameworks for Catalytic Performance Enhancement. Angewandte Chemie, 2019, 131, 8762-8767.	2.0	40
22	Reaction Environment Modification in Covalent Organic Frameworks for Catalytic Performance Enhancement. Angewandte Chemie - International Edition, 2019, 58, 8670-8675.	13.8	128
23	Optimizing radionuclide sequestration in anion nanotraps with record pertechnetate sorption. Nature Communications, 2019, 10, 1646.	12.8	122
24	Promoting Frustrated Lewis Pairs for Heterogeneous Chemoselective Hydrogenation via the Tailored Pore Environment within Metalâ€“Organic Frameworks. Angewandte Chemie, 2019, 131, 7498-7502.	2.0	20
25	Opportunities of Porous Organic Polymers for Radionuclide Sequestration. Trends in Chemistry, 2019, 1, 292-303.	8.5	93
26	Squaramide-decorated covalent organic framework as a new platform for biomimetic hydrogen-bonding organocatalysis. Chemical Communications, 2019, 55, 5423-5426.	4.1	33
27	Promoting Frustrated Lewis Pairs for Heterogeneous Chemoselective Hydrogenation via the Tailored Pore Environment within Metalâ€“Organic Frameworks. Angewandte Chemie - International Edition, 2019, 58, 7420-7424.	13.8	85
28	Siderophore-inspired chelator hijacks uranium from aqueous medium. Nature Communications, 2019, 10, 819.	12.8	84
29	Mapping out the Degree of Freedom of Hosted Enzymes in Confined Spatial Environments. CheM, 2019, 5, 3184-3195.	11.7	62
30	Opportunities of Covalent Organic Frameworks for Advanced Applications. Advanced Science, 2019, 6, 1801410.	11.2	368
31	Photomechanical Organic Crystals as Smart Materials for Advanced Applications. Chemistry - A European Journal, 2019, 25, 5611-5622.	3.3	83
32	A Stable Metalâ€“Organic Framework Featuring a Local Buffer Environment for Carbon Dioxide Fixation. Angewandte Chemie - International Edition, 2018, 57, 4657-4662.	13.8	283
33	A Stable Metalâ€“Organic Framework Featuring a Local Buffer Environment for Carbon Dioxide Fixation. Angewandte Chemie, 2018, 130, 4747-4752.	2.0	32
34	Bio-inspired nano-traps for uranium extraction from seawater and recovery from nuclear waste. Nature Communications, 2018, 9, 1644.	12.8	300
35	Pore Environment Control and Enhanced Performance of Enzymes Infiltrated in Covalent Organic Frameworks. Journal of the American Chemical Society, 2018, 140, 984-992.	13.7	310
36	Covalent Organic Frameworks as a Decorating Platform for Utilization and Affinity Enhancement of Chelating Sites for Radionuclide Sequestration. Advanced Materials, 2018, 30, e1705479.	21.0	398

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37	A metalâ€“metalloporphyrin framework based on an octatopic porphyrin ligand for chemical fixation of CO₂with aziridines. Chemical Communications, 2018, 54, 1170-1173.	4.1	104
38	Metalloenzyme Mimicry at the Nodes of Metal-Organic Frameworks. CheM, 2018, 4, 2736-2738.	11.7	9
39	Metal-Organic Framework Anchored with a Lewis Pair as a New Paradigm for Catalysis. CheM, 2018, 4, 2587-2599.	11.7	120
40	Covalent Organic Frameworks with Chirality Enriched by Biomolecules for Efficient Chiral Separation. Angewandte Chemie, 2018, 130, 16996-17001.	2.0	20
41	Covalent Organic Frameworks with Chirality Enriched by Biomolecules for Efficient Chiral Separation. Angewandte Chemie - International Edition, 2018, 57, 16754-16759.	13.8	200
42	Cobalt nanoparticles incorporated into hollow doped porous carbon capsules as a highly efficient oxygen reduction electrocatalyst. Catalysis Science and Technology, 2018, 8, 5244-5250.	4.1	17
43	A porous BrÃ¸nsted superacid as an efficient and durable solid catalyst. Journal of Materials Chemistry A, 2018, 6, 18712-18719.	10.3	24
44	Lower Activation Energy for Catalytic Reactions through Hostâ€“Guest Cooperation within Metalâ€“Organic Frameworks. Angewandte Chemie - International Edition, 2018, 57, 10107-10111.	13.8	166
45	Lower Activation Energy for Catalytic Reactions through Hostâ€“Guest Cooperation within Metalâ€“Organic Frameworks. Angewandte Chemie, 2018, 130, 10264-10268.	2.0	33
46	Integrating Superwettability within Covalent Organic Frameworks for Functional Coating. CheM, 2018, 4, 1726-1739.	11.7	157
47	Facile Approach to Graft Ionic Liquid into MOF for Improving the Efficiency of CO₂ Chemical Fixation. ACS Applied Materials & Interfaces, 2018, 10, 27124-27130.	8.0	142
48	Visualizing Structural Transformation and Guest Binding in a Flexible Metalâ€“Organic Framework under High Pressure and Room Temperature. ACS Central Science, 2018, 4, 1194-1200.	11.3	46
49	Creating solvation environments in heterogeneous catalysts for efficient biomass conversion. Nature Communications, 2018, 9, 3236.	12.8	70
50	Fabrication of Lightâ€Triggered Soft Artificial Muscles via a Mixedâ€Matrix Membrane Strategy. Angewandte Chemie, 2018, 130, 10349-10353.	2.0	30
51	Fabrication of Lightâ€Triggered Soft Artificial Muscles via a Mixedâ€Matrix Membrane Strategy. Angewandte Chemie - International Edition, 2018, 57, 10192-10196.	13.8	98
52	A bifunctional covalent organic framework as an efficient platform for cascade catalysis. Materials Chemistry Frontiers, 2017, 1, 1310-1316.	5.9	78
53	Enhancing the biofuel upgrade performance for Pd nanoparticles via increasing the support hydrophilicity of metalâ€“organic frameworks. Faraday Discussions, 2017, 201, 317-326.	3.2	32
54	Postsynthetically Modified Covalent Organic Frameworks for Efficient and Effective Mercury Removal. Journal of the American Chemical Society, 2017, 139, 2786-2793.	13.7	808

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55	Efficient Mercury Capture Using Functionalized Porous Organic Polymer. Advanced Materials, 2017, 29, 1700665.	21.0	255
56	Functionalized Porous Aromatic Framework for Efficient Uranium Adsorption from Aqueous Solutions. ACS Applied Materials & Interfaces, 2017, 9, 12511-12517.	8.0	215
57	Porous Ionic Polymers as a Robust and Efficient Platform for Capture and Chemical Fixation of Atmospheric CO₂. ChemSusChem, 2017, 10, 1160-1165.	6.8	127
58	A molecular-level superhydrophobic external surface to improve the stability of metalâ€“organic frameworks. Journal of Materials Chemistry A, 2017, 5, 18770-18776.	10.3	135
59	Metalâ€“Metalloporphyrin Framework Modified with Flexible tertâ€Butyl Groups for Selective Gas Adsorption. ChemPlusChem, 2016, 81, 714-717.	2.8	8
60	Selective removal of cesium and strontium using porous frameworks from high level nuclear waste. Chemical Communications, 2016, 52, 5940-5942.	4.1	145
61	Removal of Pertechnetateâ€Related Oxyanions from Solution Using Functionalized Hierarchical Porous Frameworks. Chemistry - A European Journal, 2016, 22, 17581-17584.	3.3	107
62	A bifunctional metalâ€“organic framework featuring the combination of open metal sites and Lewis basic sites for selective gas adsorption and heterogeneous cascade catalysis. Journal of Materials Chemistry A, 2016, 4, 15240-15246.	10.3	120
63	Flexibility Matters: Cooperative Active Sites in Covalent Organic Framework and Threaded Ionic Polymer. Journal of the American Chemical Society, 2016, 138, 15790-15796.	13.7	414
64	Imparting amphiphobicity on single-crystalline porous materials. Nature Communications, 2016, 7, 13300.	12.8	126
65	Superhydrophobicity: Constructing Homogeneous Catalysts into Superhydrophobic Porous Frameworks to Protect Them from Hydrolytic Degradation. CheM, 2016, 1, 628-639.	11.7	93