

Briana Aguila

List of Publications by Year in descending order

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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	Postsynthetically Modified Covalent Organic Frameworks for Efficient and Effective Mercury Removal. <i>Journal of the American Chemical Society</i> , 2017, 139, 2786-2793.	13.7	808
2	Flexibility Matters: Cooperative Active Sites in Covalent Organic Framework and Threaded Ionic Polymer. <i>Journal of the American Chemical Society</i> , 2016, 138, 15790-15796.	13.7	414
3	Covalent Organic Frameworks as a Decorating Platform for Utilization and Affinity Enhancement of Chelating Sites for Radionuclide Sequestration. <i>Advanced Materials</i> , 2018, 30, e1705479.	21.0	398
4	Opportunities of Covalent Organic Frameworks for Advanced Applications. <i>Advanced Science</i> , 2019, 6, 1801410.	11.2	368
5	Pore Environment Control and Enhanced Performance of Enzymes Infiltrated in Covalent Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2018, 140, 984-992.	13.7	310
6	Bio-inspired nano-traps for uranium extraction from seawater and recovery from nuclear waste. <i>Nature Communications</i> , 2018, 9, 1644.	12.8	300
7	A Stable Metal-Organic Framework Featuring a Local Buffer Environment for Carbon Dioxide Fixation. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 4657-4662.	13.8	283
8	Efficient Mercury Capture Using Functionalized Porous Organic Polymer. <i>Advanced Materials</i> , 2017, 29, 1700665.	21.0	255
9	Functionalized Porous Aromatic Framework for Efficient Uranium Adsorption from Aqueous Solutions. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 12511-12517.	8.0	215
10	Covalent Organic Frameworks with Chirality Enriched by Biomolecules for Efficient Chiral Separation. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 16754-16759.	13.8	200
11	Lower Activation Energy for Catalytic Reactions through Host-Guest Cooperation within Metal-Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 10107-10111.	13.8	166
12	Integrating Superwettability within Covalent Organic Frameworks for Functional Coating. <i>CheM</i> , 2018, 4, 1726-1739.	11.7	157
13	Selective removal of cesium and strontium using porous frameworks from high level nuclear waste. <i>Chemical Communications</i> , 2016, 52, 5940-5942.	4.1	145
14	Facile Approach to Graft Ionic Liquid into MOF for Improving the Efficiency of CO ₂ Chemical Fixation. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 27124-27130.	8.0	142
15	A molecular-level superhydrophobic external surface to improve the stability of metal-organic frameworks. <i>Journal of Materials Chemistry A</i> , 2017, 5, 18770-18776.	10.3	135
16	Tailored Porous Organic Polymers for Task-Specific Water Purification. <i>Accounts of Chemical Research</i> , 2020, 53, 812-821.	15.6	134
17	Reaction Environment Modification in Covalent Organic Frameworks for Catalytic Performance Enhancement. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 8670-8675.	13.8	128
18	Porous Ionic Polymers as a Robust and Efficient Platform for Capture and Chemical Fixation of Atmospheric CO ₂ . <i>ChemSusChem</i> , 2017, 10, 1160-1165.	6.8	127

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19	Imparting amphiphobicity on single-crystalline porous materials. <i>Nature Communications</i> , 2016, 7, 13300.	12.8	126
20	Optimizing radionuclide sequestration in anion nanotraps with record pertechnetate sorption. <i>Nature Communications</i> , 2019, 10, 1646.	12.8	122
21	A bifunctional metal-organic framework featuring the combination of open metal sites and Lewis basic sites for selective gas adsorption and heterogeneous cascade catalysis. <i>Journal of Materials Chemistry A</i> , 2016, 4, 15240-15246.	10.3	120
22	Metal-Organic Framework Anchored with a Lewis Pair as a New Paradigm for Catalysis. <i>Chem</i> , 2018, 4, 2587-2599.	11.7	120
23	Tuning Pore Heterogeneity in Covalent Organic Frameworks for Enhanced Enzyme Accessibility and Resistance against Denaturants. <i>Advanced Materials</i> , 2019, 31, e1900008.	21.0	114
24	Programming Covalent Organic Frameworks for Photocatalysis: Investigation of Chemical and Structural Variations. <i>Matter</i> , 2020, 2, 416-427.	10.0	110
25	Removal of Pertechnetate-Related Oxyanions from Solution Using Functionalized Hierarchical Porous Frameworks. <i>Chemistry - A European Journal</i> , 2016, 22, 17581-17584.	3.3	107
26	A metal-metalloporphyrin framework based on an octatopic porphyrin ligand for chemical fixation of CO ₂ with aziridines. <i>Chemical Communications</i> , 2018, 54, 1170-1173.	4.1	104
27	Fabrication of Light-Triggered Soft Artificial Muscles via a Mixed Matrix Membrane Strategy. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 10192-10196.	13.8	98
28	Superhydrophobicity: Constructing Homogeneous Catalysts into Superhydrophobic Porous Frameworks to Protect Them from Hydrolytic Degradation. <i>Chem</i> , 2016, 1, 628-639.	11.7	93
29	Opportunities of Porous Organic Polymers for Radionuclide Sequestration. <i>Trends in Chemistry</i> , 2019, 1, 292-303.	8.5	93
30	Design Strategies to Enhance Amidoxime Chelators for Uranium Recovery. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 30919-30926.	8.0	91
31	Pore environment engineering in metal-organic frameworks for efficient ethane/ethylene separation. <i>Journal of Materials Chemistry A</i> , 2019, 7, 13585-13590.	10.3	91
32	Promoting Frustrated Lewis Pairs for Heterogeneous Chemoselective Hydrogenation via the Tailored Pore Environment within Metal-Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 7420-7424.	13.8	85
33	Siderophore-inspired chelator hijacks uranium from aqueous medium. <i>Nature Communications</i> , 2019, 10, 819.	12.8	84
34	Photomechanical Organic Crystals as Smart Materials for Advanced Applications. <i>Chemistry - A European Journal</i> , 2019, 25, 5611-5622.	3.3	83
35	A bifunctional covalent organic framework as an efficient platform for cascade catalysis. <i>Materials Chemistry Frontiers</i> , 2017, 1, 1310-1316.	5.9	78
36	Creating solvation environments in heterogeneous catalysts for efficient biomass conversion. <i>Nature Communications</i> , 2018, 9, 3236.	12.8	70

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37	Mapping out the Degree of Freedom of Hosted Enzymes in Confined Spatial Environments. <i>CheM</i> , 2019, 5, 3184-3195.	11.7	62
38	A Porous Organic Polymer Nanotrap for Efficient Extraction of Palladium. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 19618-19622.	13.8	57
39	Nanospace Decoration with Uranyl-Specific α -Hooks for Selective Uranium Extraction from Seawater with Ultrahigh Enrichment Index. <i>ACS Central Science</i> , 2021, 7, 1650-1656.	11.3	49
40	Visualizing Structural Transformation and Guest Binding in a Flexible Metal-Organic Framework under High Pressure and Room Temperature. <i>ACS Central Science</i> , 2018, 4, 1194-1200.	11.3	46
41	Spatial Engineering Direct Cooperativity between Binding Sites for Uranium Sequestration. <i>Advanced Science</i> , 2021, 8, 2001573.	11.2	43
42	Reaction Environment Modification in Covalent Organic Frameworks for Catalytic Performance Enhancement. <i>Angewandte Chemie</i> , 2019, 131, 8762-8767.	2.0	40
43	Lower Activation Energy for Catalytic Reactions through Host-Guest Cooperation within Metal-Organic Frameworks. <i>Angewandte Chemie</i> , 2018, 130, 10264-10268.	2.0	33
44	Squaramide-decorated covalent organic framework as a new platform for biomimetic hydrogen-bonding organocatalysis. <i>Chemical Communications</i> , 2019, 55, 5423-5426.	4.1	33
45	Enhancing the biofuel upgrade performance for Pd nanoparticles via increasing the support hydrophilicity of metal-organic frameworks. <i>Faraday Discussions</i> , 2017, 201, 317-326.	3.2	32
46	A Stable Metal-Organic Framework Featuring a Local Buffer Environment for Carbon Dioxide Fixation. <i>Angewandte Chemie</i> , 2018, 130, 4747-4752.	2.0	32
47	Fabrication of Light-Triggered Soft Artificial Muscles via a Mixed-Matrix Membrane Strategy. <i>Angewandte Chemie</i> , 2018, 130, 10349-10353.	2.0	30
48	A Mixed-Metal Porphyrinic Framework Promoting Gas-Phase CO ₂ Photoreduction without Organic Sacrificial Agents. <i>ChemSusChem</i> , 2020, 13, 6273-6277.	6.8	26
49	A porous Brønsted superacid as an efficient and durable solid catalyst. <i>Journal of Materials Chemistry A</i> , 2018, 6, 18712-18719.	10.3	24
50	Solvent-assisted coordination driven assembly of a supramolecular architecture featuring two types of connectivity from discrete nanocages. <i>Chemical Science</i> , 2019, 10, 6661-6665.	7.4	24
51	Covalent Organic Frameworks with Chirality Enriched by Biomolecules for Efficient Chiral Separation. <i>Angewandte Chemie</i> , 2018, 130, 16996-17001.	2.0	20
52	Promoting Frustrated Lewis Pairs for Heterogeneous Chemoselective Hydrogenation via the Tailored Pore Environment within Metal-Organic Frameworks. <i>Angewandte Chemie</i> , 2019, 131, 7498-7502.	2.0	20
53	Bio-inspired creation of heterogeneous reaction vessels via polymerization of supramolecular ion pair. <i>Nature Communications</i> , 2019, 10, 3059.	12.8	19
54	Cobalt nanoparticles incorporated into hollow doped porous carbon capsules as a highly efficient oxygen reduction electrocatalyst. <i>Catalysis Science and Technology</i> , 2018, 8, 5244-5250.	4.1	17

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55	Covalent Organic Frameworks: Opportunities of Covalent Organic Frameworks for Advanced Applications (Adv. Sci. 2/2019). Advanced Science, 2019, 6, 1970011.	11.2	14
56	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
57	A Porous Organic Polymer Nanotrap for Efficient Extraction of Palladium. Angewandte Chemie, 2020, 132, 19786-19790.	2.0	10
58	Metalloenzyme Mimicry at the Nodes of Metal-Organic Frameworks. Chem, 2018, 4, 2736-2738.	11.7	9
59	Metal-Organic Framework Modified with Flexible tert-Butyl Groups for Selective Gas Adsorption. ChemPlusChem, 2016, 81, 714-717.	2.8	8
60	Optimizing the performance of porous pyridinium frameworks for carbon dioxide transformation. Catalysis Today, 2020, 356, 557-562.	4.4	7
61	Frontispiz: Reaction Environment Modification in Covalent Organic Frameworks for Catalytic Performance Enhancement. Angewandte Chemie, 2019, 131, .	2.0	1
62	Frontispiece: Reaction Environment Modification in Covalent Organic Frameworks for Catalytic Performance Enhancement. Angewandte Chemie - International Edition, 2019, 58, .	13.8	0
63	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
64	Frontispiece: Photomechanical Organic Crystals as Smart Materials for Advanced Applications. Chemistry - A European Journal, 2019, 25, .	3.3	0
65	A Porous Organic Polymer Nanotrap for Efficient Extraction of Palladium (Angew.)	2.0	0