

Ali Coskun

List of Publications by Year in Descending Order

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Version: 2024-04-10

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

122 papers	9,942 citations	52 h-index	99 g-index
138 ext. papers	11,071 ext. citations	12.3 avg, IF	6.58 L-index

#	Paper	IF	Citations
122	Integrated Ring-Chain Design of a New Fluorinated Ether Solvent for High-Voltage Lithium-Metal Batteries.. <i>Angewandte Chemie - International Edition</i> , 2022 , e202115884	16.4	5
121	Fluorinated ether electrolyte with controlled solvation structure for high voltage lithium metal batteries.. <i>Nature Communications</i> , 2022 , 13, 2575	17.4	19
120	Tuning the Transport Properties of Gases in Porous Graphene Membranes with Controlled Pore Size and Thickness. <i>Advanced Materials</i> , 2021 , e2106785	24	2
119	One-step anodization-electrophoretic deposition of titanium nanotubes-graphene nanoribbon framework for water oxidation. <i>Journal of Electroanalytical Chemistry</i> , 2021 , 902, 115802	4.1	1
118	The Prospect of Dimensionality in Porous Semiconductors. <i>Chemistry - A European Journal</i> , 2021 , 27, 7489-7501	4.8	4
117	Stable Solid Electrolyte Interphase Formation Induced by Monoquat-Based Anchoring in Lithium Metal Batteries. <i>ACS Energy Letters</i> , 2021 , 6, 1711-1718	20.1	11
116	The Green Lean Amine Machine: Harvesting Electric Power While Capturing Carbon Dioxide from Breath. <i>Advanced Science</i> , 2021 , 8, e2100995	13.6	3
115	Molten Salt Templated Synthesis of Covalent Isocyanurate Frameworks with Tunable Morphology and High CO Uptake Capacity. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 26102-26108	9.5	3
114	Porous shape-persistent rylene imine cages with tunable optoelectronic properties and delayed fluorescence. <i>Chemical Science</i> , 2021 , 12, 5275-5285	9.4	2
113	Ultrahigh permeance metal coated porous graphene membranes with tunable gas selectivities. <i>CheM</i> , 2021 , 7, 2385-2394	16.2	2
112	Ionic Liquid Functionalized Gel Polymer Electrolytes for Stable Lithium Metal Batteries. <i>Angewandte Chemie</i> , 2021 , 133, 22973	3.6	3
111	Ionic Liquid Functionalized Gel Polymer Electrolytes for Stable Lithium Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 22791-22796	16.4	12
110	COFs Meet Graphene Nanoribbons. <i>CheM</i> , 2020 , 6, 1046-1048	16.2	6
109	A Three-Dimensional Porous Organic Semiconductor Based on Fully sp ⁻ -Hybridized Graphitic Polymer. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 15166-15170	16.4	14
108	A Three-Dimensional Porous Organic Semiconductor Based on Fully sp ² -Hybridized Graphitic Polymer. <i>Angewandte Chemie</i> , 2020 , 132, 15278-15282	3.6	7
107	Covalent Triazine Frameworks Incorporating Charged Polypyrrole Channels for High-Performance LithiumSulfur Batteries. <i>Chemistry of Materials</i> , 2020 , 32, 4185-4193	9.6	29
106	Tailor-made Functional Polymers for Energy Storage and Environmental Applications. <i>Chimia</i> , 2020 , 74, 667-673	1.3	

105	Hierarchically Porous Reduced Graphene Oxide Coated with Metal-Organic Framework HKUST-1 for Enhanced Hydrogen Gas Affinity. <i>ACS Applied Nano Materials</i> , 2020 , 3, 985-991	5.6	14
104	Nitrogen-Doped Carbons with Hierarchical Porosity via Chemical Blowing Towards Long-Lived Metal-Free Catalysts for Acetylene Hydrochlorination. <i>ChemCatChem</i> , 2020 , 12, 1922-1925	5.2	6
103	In Situ Deprotection of Polymeric Binders for Solution-Processible Sulfide-Based All-Solid-State Batteries. <i>Advanced Materials</i> , 2020 , 32, e2001702	24	18
102	Highly Elastic Polyrotaxane Binders for Mechanically Stable Lithium Hosts in Lithium-Metal Batteries. <i>Advanced Materials</i> , 2019 , 31, e1901645	24	39
101	Advances in Porous Organic Polymers for Efficient Water Capture. <i>Chemistry - A European Journal</i> , 2019 , 25, 10262-10283	4.8	41
100	Lithium-Salt Mediated Synthesis of a Covalent Triazine Framework for Highly Stable Lithium Metal Batteries. <i>Angewandte Chemie</i> , 2019 , 131, 16951-16955	3.6	15
99	Lithium-Salt Mediated Synthesis of a Covalent Triazine Framework for Highly Stable Lithium Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 16795-16799	16.4	43
98	A Pyrene-Poly(acrylic acid)-Polyrotaxane Supramolecular Binder Network for High-Performance Silicon Negative Electrodes. <i>Advanced Materials</i> , 2019 , 31, e1905048	24	50
97	Prospect for Supramolecular Chemistry in High-Energy-Density Rechargeable Batteries. <i>Joule</i> , 2019 , 3, 662-682	27.8	42
96	Dyeing Your Hair with Graphene. <i>CheM</i> , 2018 , 4, 661-663	16.2	1
95	Epoxy-Functionalized Porous Organic Polymers via the Diels-Alder Cycloaddition Reaction for Atmospheric Water Capture. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 3173-3177	16.4	25
94	The emerging era of supramolecular polymeric binders in silicon anodes. <i>Chemical Society Reviews</i> , 2018 , 47, 2145-2164	58.5	217
93	Epoxy-Functionalized Porous Organic Polymers via the Diels-Alder Cycloaddition Reaction for Atmospheric Water Capture. <i>Angewandte Chemie</i> , 2018 , 130, 3227-3231	3.6	11
92	Energy Band-Gap Engineering of Conjugated Microporous Polymers via Acidity-Dependent in Situ Cyclization. <i>Journal of the American Chemical Society</i> , 2018 , 140, 10937-10940	16.4	33
91	Bimetallic metal organic frameworks with precisely positioned metal centers for efficient H ₂ storage. <i>Chemical Communications</i> , 2018 , 54, 12218-12221	5.8	15
90	The Power of the Mechanical Bond. <i>CheM</i> , 2018 , 4, 2260-2262	16.2	2
89	A Facile and Scalable Route to the Preparation of Catalytic Membranes with in Situ Synthesized Supramolecular Dendrimer Particle Hosts for Pt(0) Nanoparticles Using a Low-Generation PAMAM Dendrimer (G1-NH) as Precursor. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 33238-33251	9.5	8
88	Edge-Functionalized Graphene Nanoribbon Frameworks for the Capture and Separation of Greenhouse Gases. <i>Macromolecules</i> , 2017 , 50, 523-533	5.5	11

87	Nanostructured ZnO as a structural template for the growth of ZIF-8 with tunable hierarchical porosity for CO ₂ conversion. <i>CrystEngComm</i> , 2017 , 19, 4147-4151	3.3	19
86	Charged Covalent Triazine Frameworks for CO Capture and Conversion. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 7209-7216	9.5	202
85	Highly Hydrophobic ZIF-8/Carbon Nitride Foam with Hierarchical Porosity for Oil Capture and Chemical Fixation of CO ₂ . <i>Advanced Functional Materials</i> , 2017 , 27, 1700706	15.6	87
84	Transition metal complex directed synthesis of porous cationic polymers for efficient CO ₂ capture and conversion. <i>Polymer</i> , 2017 , 126, 296-302	3.9	13
83	Bottom-up synthesis of fully sp ² hybridized three-dimensional microporous graphitic frameworks as metal-free catalysts. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 12080-12085	13	33
82	Template-Directed Approach Towards the Realization of Ordered Heterogeneity in Bimetallic Metal-Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 5071-5076	16.4	37
81	Template-Directed Approach Towards the Realization of Ordered Heterogeneity in Bimetallic Metal-Organic Frameworks. <i>Angewandte Chemie</i> , 2017 , 129, 5153-5158	3.6	5
80	Perfluoroaryl-Elemental Sulfur SNAr Chemistry in Covalent Triazine Frameworks with High Sulfur Contents for Lithium-Sulfur Batteries. <i>Advanced Functional Materials</i> , 2017 , 27, 1703947	15.6	118
79	Selection of Binder and Solvent for Solution-Processed All-Solid-State Battery. <i>Journal of the Electrochemical Society</i> , 2017 , 164, A2075-A2081	3.9	71
78	Chemically Activated Covalent Triazine Frameworks with Enhanced Textural Properties for High Capacity Gas Storage. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 30679-30685	9.5	50
77	Highly elastic binders integrating polyrotaxanes for silicon microparticle anodes in lithium ion batteries. <i>Science</i> , 2017 , 357, 279-283	33.3	670
76	Chemical Blowing Approach for Ultramicroporous Carbon Nitride Frameworks and Their Applications in Gas and Energy Storage. <i>Advanced Functional Materials</i> , 2017 , 27, 1604658	15.6	77
75	Rational Sulfur Cathode Design for Lithium-Sulfur Batteries: Sulfur-Embedded Benzoxazine Polymers. <i>ACS Energy Letters</i> , 2016 , 1, 566-572	20.1	88
74	Pillar[5]arene Based Conjugated Microporous Polymers for Propane/Methane Separation through Host-Guest Complexation. <i>Chemistry of Materials</i> , 2016 , 28, 4460-4466	9.6	96
73	Porous cationic polymers: the impact of counteranions and charges on CO ₂ capture and conversion. <i>Chemical Communications</i> , 2016 , 52, 934-7	5.8	127
72	Graphene oxide-templated preferential growth of continuous MOF thin films. <i>CrystEngComm</i> , 2016 , 18, 4013-4017	3.3	17
71	Elemental-Sulfur-Mediated Facile Synthesis of a Covalent Triazine Framework for High-Performance Lithium-Sulfur Batteries. <i>Angewandte Chemie</i> , 2016 , 128, 3158-3163	3.6	89
70	Elemental-Sulfur-Mediated Facile Synthesis of a Covalent Triazine Framework for High-Performance Lithium-Sulfur Batteries. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 3106-11	16.4	249

69	Graphene/ZIF-8 composites with tunable hierarchical porosity and electrical conductivity. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 7710-7717	13	93
68	Direct Utilization of Elemental Sulfur in the Synthesis of Microporous Polymers for Natural Gas Sweetening. <i>CheM</i> , 2016 , 1, 482-493	16.2	37
67	Synthesis of Highly Porous Coordination Polymers with Open Metal Sites for Enhanced Gas Uptake and Separation. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 26860-26867	9.5	33
66	Diazapyrenium-based porous cationic polymers for colorimetric amine sensing and capture from CO ₂ scrubbing conditions. <i>RSC Advances</i> , 2016 , 6, 77406-77409	3.7	12
65	Electron Injection from Copper Diimine Sensitizers into TiO ₂ : Structural Effects and Their Implications for Solar Energy Conversion Devices. <i>Journal of the American Chemical Society</i> , 2015 , 137, 9670-84	16.4	47
64	Bottom-up Approach for the Synthesis of a Three-Dimensional Nanoporous Graphene Nanoribbon Framework and Its Gas Sorption Properties. <i>Chemistry of Materials</i> , 2015 , 27, 2576-2583	9.6	34
63	Catalyst-Free Synthesis of Porous Graphene Networks as Efficient Sorbents for CO and H ₂ . <i>ChemPlusChem</i> , 2015 , 80, 1127-1132	2.8	5
62	Dynamic Cross-Linking of Polymeric Binders Based on Host-Guest Interactions for Silicon Anodes in Lithium Ion Batteries. <i>ACS Nano</i> , 2015 , 9, 11317-24	16.7	123
61	Nanoporous Polymers Incorporating Sterically Confined N-Heterocyclic Carbenes for Simultaneous CO ₂ Capture and Conversion at Ambient Pressure. <i>Chemistry of Materials</i> , 2015 , 27, 6818-6826	9.6	98
60	Systematic Investigation of the Effect of Polymerization Routes on the Gas-Sorption Properties of Nanoporous Azobenzene Polymers. <i>Chemistry - A European Journal</i> , 2015 , 21, 15320-7	4.8	34
59	Thinking Outside the Cage: Controlling the Extrinsic Porosity and Gas Uptake Properties of Shape-Persistent Molecular Cages in Nanoporous Polymers. <i>Chemistry of Materials</i> , 2015 , 27, 4149-4155	9.6	48
58	Millipede-inspired structural design principle for high performance polysaccharide binders in silicon anodes. <i>Energy and Environmental Science</i> , 2015 , 8, 1224-1230	35.4	179
57	Hyperbranched Cyclodextrin polymer as an effective multidimensional binder for silicon anodes in lithium rechargeable batteries. <i>Nano Letters</i> , 2014 , 14, 864-70	11.5	230
56	Directing the structural features of N(2)-phobic nanoporous covalent organic polymers for CO(2) capture and separation. <i>Chemistry - A European Journal</i> , 2014 , 20, 772-80	4.8	113
55	Nanoporous covalent organic polymers incorporating Tröger's base functionalities for enhanced CO ₂ capture. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 12507	13	78
54	An Aqueous Sodium Ion Hybrid Battery Incorporating an Organic Compound and a Prussian Blue Derivative. <i>Advanced Energy Materials</i> , 2014 , 4, 1400133	21.8	93
53	Ground-state kinetics of bistable redox-active donor-acceptor mechanically interlocked molecules. <i>Accounts of Chemical Research</i> , 2014 , 47, 482-93	24.3	96
52	Ordered supramolecular gels based on graphene oxide and tetracationic cyclophanes. <i>Advanced Materials</i> , 2014 , 26, 2725-9, 2617	24	24

51	Systematic molecular-level design of binders incorporating Meldrum's acid for silicon anodes in lithium rechargeable batteries. <i>Advanced Materials</i> , 2014 , 26, 7979-85	24	124
50	A bifunctional approach for the preparation of graphene and ionic liquid-based hybrid gels. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 43-48	13	31
49	Unprecedented high-temperature CO ₂ selectivity in N ₂ -phobic nanoporous covalent organic polymers. <i>Nature Communications</i> , 2013 , 4, 1357	17.4	395
48	Redox-controlled selective docking in a [2]catenane host. <i>Journal of the American Chemical Society</i> , 2013 , 135, 2466-9	16.4	26
47	Three-dimensional architectures incorporating stereoregular donor-acceptor stacks. <i>Chemistry - A European Journal</i> , 2013 , 19, 8457-65	4.8	25
46	Electronic and optical vibrational spectroscopy of molecular transport junctions created by on-wire lithography. <i>Small</i> , 2013 , 9, 1900-3	11	9
45	Photoinduced memory effect in a redox controllable bistable mechanical molecular switch. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 1611-5	16.4	109
44	Metal-organic frameworks incorporating copper-complexed rotaxanes. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 2160-3	16.4	92
43	Highly Efficient Ultrafast Electron Injection from the Singlet MLCT Excited State of Copper(I) Diimine Complexes to TiO ₂ Nanoparticles. <i>Angewandte Chemie</i> , 2012 , 124, 12883-12887	3.6	12
42	Highly efficient ultrafast electron injection from the singlet MLCT excited state of copper(I) diimine complexes to TiO ₂ nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 12711-5	16.4	77
41	Effect of N-substitution in naphthalenediimides on the electrochemical performance of organic rechargeable batteries. <i>RSC Advances</i> , 2012 , 2, 7968	3.7	69
40	Solution-phase mechanistic study and solid-state structure of a tris(bipyridinium radical cation) inclusion complex. <i>Journal of the American Chemical Society</i> , 2012 , 134, 3061-72	16.4	112
39	High hopes: can molecular electronics realise its potential?. <i>Chemical Society Reviews</i> , 2012 , 41, 4827-59	58.5	258
38	Photoinduced Memory Effect in a Redox Controllable Bistable Mechanical Molecular Switch. <i>Angewandte Chemie</i> , 2012 , 124, 1643-1647	3.6	25
37	Metal-Organic Frameworks Incorporating Copper-Complexed Rotaxanes. <i>Angewandte Chemie</i> , 2012 , 124, 2202-2205	3.6	21
36	Mechanically Interlocked Molecules Assembled by π Recognition. <i>ChemPlusChem</i> , 2012 , 77, 159-185	2.8	78
35	Great expectations: can artificial molecular machines deliver on their promise?. <i>Chemical Society Reviews</i> , 2012 , 41, 19-30	58.5	723
34	Mechanically stabilized tetrathiafulvalene radical dimers. <i>Journal of the American Chemical Society</i> , 2011 , 133, 4538-47	16.4	110

33	Imprinting Chemical and Responsive Micropatterns into Metal-Organic Frameworks. <i>Angewandte Chemie</i> , 2011 , 123, 290-293	3.6	18
32	A Light-Stimulated Molecular Switch Driven by Radical-Radical Interactions in Water. <i>Angewandte Chemie</i> , 2011 , 123, 6914-6920	3.6	33
31	Innentitelbild: A Light-Stimulated Molecular Switch Driven by Radical-Radical Interactions in Water (Angew. Chem. 30/2011). <i>Angewandte Chemie</i> , 2011 , 123, 6804-6804	3.6	
30	Imprinting chemical and responsive micropatterns into metal-organic frameworks. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 276-9	16.4	63
29	A light-stimulated molecular switch driven by radical-radical interactions in water. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 6782-8	16.4	115
28	Inside Cover: A Light-Stimulated Molecular Switch Driven by Radical-Radical Interactions in Water (Angew. Chem. Int. Ed. 30/2011). <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 6674-6674	16.4	3
27	Donor-acceptor oligorotaxanes made to order. <i>Chemistry - A European Journal</i> , 2011 , 17, 2107-19	4.8	49
26	A multistate switchable [3]rotacatenane. <i>Chemistry - A European Journal</i> , 2011 , 17, 213-22	4.8	54
25	A redox-active reverse donor-acceptor bistable [2]rotaxane. <i>Chemical Science</i> , 2011 , 2, 1046-1053	9.4	52
24	Highly stable tetrathiafulvalene radical dimers in [3]catenanes. <i>Nature Chemistry</i> , 2010 , 2, 870-9	17.6	159
23	Molecular-mechanical switching at the nanoparticle-solvent interface: practice and theory. <i>Journal of the American Chemical Society</i> , 2010 , 132, 4310-20	16.4	57
22	Chromatography in a single metal-organic framework (MOF) crystal. <i>Journal of the American Chemical Society</i> , 2010 , 132, 16358-61	16.4	177
21	Excited state distortions in a charge transfer state of a donor-acceptor [2]rotaxane. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 14135-43	3.6	7
20	Polycatenation under Thermodynamic Control. <i>Angewandte Chemie</i> , 2010 , 122, 3219-3224	3.6	8
19	Polycatenation under thermodynamic control. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 3151-4	16.4	34
18	Dynamic hook-and-eye nanoparticle sponges. <i>Nature Chemistry</i> , 2009 , 1, 733-8	17.6	104
17	Metal nanoparticles functionalized with molecular and supramolecular switches. <i>Journal of the American Chemical Society</i> , 2009 , 131, 4233-5	16.4	111
16	Design strategies for ratiometric chemosensors: modulation of excitation energy transfer at the energy donor site. <i>Journal of the American Chemical Society</i> , 2009 , 131, 9007-13	16.4	201

15	A light-gated STOP-GO molecular shuttle. <i>Journal of the American Chemical Society</i> , 2009 , 131, 2493-5	16.4	112
14	Assembly of polygonal nanoparticle clusters directed by reversible noncovalent bonding interactions. <i>Nano Letters</i> , 2009 , 9, 3185-90	11.5	73
13	Enzyme-responsive snap-top covered silica nanocontainers. <i>Journal of the American Chemical Society</i> , 2008 , 130, 2382-3	16.4	544
12	A reverse donor-acceptor bistable [2]catenane. <i>Organic Letters</i> , 2008 , 10, 3187-90	6.2	52
11	A sensitive fluorescent chemosensor for anions based on a styrylboradiazaindacene framework. <i>Tetrahedron Letters</i> , 2007 , 48, 5359-5361	2	19
10	Bis(2-pyridyl)-substituted boratriazaindacene as an NIR-emitting chemosensor for Hg(II). <i>Organic Letters</i> , 2007 , 9, 607-9	6.2	221
9	Signal ratio amplification via modulation of resonance energy transfer: proof of principle in an emission ratiometric Hg(II) sensor. <i>Journal of the American Chemical Society</i> , 2006 , 128, 14474-5	16.4	375
8	An acenaphthopyrrolone-dipicolylamine derivative as a selective and sensitive chemosensor for group IIB cations. <i>Tetrahedron Letters</i> , 2006 , 47, 3689-3691	2	6
7	Cation modulation of carbonyldipyrinone (CDP) fluorescence: emission-ratiometric sensing of calcium. <i>Journal of Materials Chemistry</i> , 2005 , 15, 2908		12
6	Effective PET and ICT switching of boradiazaindacene emission: a unimolecular, emission-mode, molecular half-subtractor with reconfigurable logic gates. <i>Organic Letters</i> , 2005 , 7, 5187-9	6.2	257
5	Ion sensing coupled to resonance energy transfer: a highly selective and sensitive ratiometric fluorescent chemosensor for Ag(I) by a modular approach. <i>Journal of the American Chemical Society</i> , 2005 , 127, 10464-5	16.4	393
4	Difluorobora-s-diazaindacene dyes as highly selective dosimetric reagents for fluoride anions. <i>Tetrahedron Letters</i> , 2004 , 45, 4947-4949	2	89
3	Three-point recognition and selective fluorescence sensing of L-DOPA. <i>Organic Letters</i> , 2004 , 6, 3107-9	6.2	44
2	Novel fluorescent chemosensor for anions via modulation of oxidative PET: a remarkable 25-fold enhancement of emission. <i>Tetrahedron Letters</i> , 2003 , 44, 5649-5651	2	54
1	Cyclotetrabenzil-Based Porous Organic Polymers with High Carbon Dioxide Affinity. <i>Organic Materials</i> , 2003 , 03,	1.9	4