

Cafer T Yavuz

List of Publications by Citations

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121
papers

6,419
citations

36
h-index

78
g-index

134
ext. papers

7,294
ext. citations

9.3
avg, IF

6.07
L-index

#	Paper	IF	Citations
121	Low-field magnetic separation of monodisperse Fe ₃ O ₄ nanocrystals. <i>Science</i> , 2006 , 314, 964-7	33.3	1041
120	Synthesis of monodisperse iron oxide nanocrystals by thermal decomposition of iron carboxylate salts. <i>Chemical Communications</i> , 2004 , 2306-7	5.8	479
119	Unprecedented high-temperature CO ₂ selectivity in N ₂ -phobic nanoporous covalent organic polymers. <i>Nature Communications</i> , 2013 , 4, 1357	17.4	395
118	The effect of nanocrystalline magnetite size on arsenic removal. <i>Science and Technology of Advanced Materials</i> , 2007 , 8, 71-75	7.1	376
117	Effect of magnetite particle size on adsorption and desorption of arsenite and arsenate. <i>Journal of Materials Research</i> , 2005 , 20, 3255-3264	2.5	332
116	Magnetic separations: From steel plants to biotechnology. <i>Chemical Engineering Science</i> , 2009 , 64, 2510-2521	4.2	271
115	Carbon Dioxide Capture Adsorbents: Chemistry and Methods. <i>ChemSusChem</i> , 2017 , 10, 1303-1317	8.3	204
114	Dry reforming of methane by stable Ni-Mo nanocatalysts on single-crystalline MgO. <i>Science</i> , 2020 , 367, 777-781	33.3	172
113	High capacity carbon dioxide adsorption by inexpensive covalent organic polymers. <i>Journal of Materials Chemistry</i> , 2012 , 22, 8431		162
112	Noninvasive functionalization of polymers of intrinsic microporosity for enhanced CO ₂ capture. <i>Chemical Communications</i> , 2012 , 48, 9989-91	5.8	161
111	Highly Stable Nanoporous Sulfur-Bridged Covalent Organic Polymers for Carbon Dioxide Removal. <i>Advanced Functional Materials</i> , 2013 , 23, 2270-2276	15.6	126
110	Electrically driven phase transition in magnetite nanostructures. <i>Nature Materials</i> , 2008 , 7, 130-3	27	115
109	Pd-sensitized single vanadium oxide nanowires: highly responsive hydrogen sensing based on the metal-insulator transition. <i>Nano Letters</i> , 2009 , 9, 3980-4	11.5	114
108	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
107	Charge-specific size-dependent separation of water-soluble organic molecules by fluorinated nanoporous networks. <i>Nature Communications</i> , 2016 , 7, 13377	17.4	109
106	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
105	Markedly Improved CO ₂ Capture Efficiency and Stability of Gallium Substituted Hydrotalcites at Elevated Temperatures. <i>Chemistry of Materials</i> , 2009 , 21, 3473-3475	9.6	74

104	Selective removal of heavy metal ions by disulfide linked polymer networks. <i>Journal of Hazardous Materials</i> , 2017 , 332, 140-148	12.8	70
103	A half millimeter thick coplanar flexible battery with wireless recharging capability. <i>Nano Letters</i> , 2015 , 15, 2350-7	11.5	70
102	Amidoximes: promising candidates for CO2 capture. <i>Energy and Environmental Science</i> , 2011 , 4, 4528	35.4	70
101	Growth of metal oxide nanowires from supercooled liquid nanodroplets. <i>Nano Letters</i> , 2009 , 9, 4138-46	11.5	67
100	Size-dependent sedimentation properties of nanocrystals. <i>ACS Nano</i> , 2008 , 2, 311-9	16.7	66
99	Highly Efficient Catalytic Cyclic Carbonate Formation by Pyridyl Salicylimines. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 9478-9484	9.5	64
98	High-capacity methane storage in flexible alkane-linked porous aromatic network polymers. <i>Nature Energy</i> , 2019 , 4, 604-611	62.3	62
97	Precious metal recovery from electronic waste by a porous porphyrin polymer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 16174-16180	11.5	49
96	Melamine based porous organic amide polymers for CO2 capture. <i>RSC Advances</i> , 2014 , 4, 52263-52269	3.7	49
95	Pollution magnet: nano-magnetite for arsenic removal from drinking water. <i>Environmental Geochemistry and Health</i> , 2010 , 32, 327-34	4.7	48
94	Nanoporous Benzoxazole Networks by Silylated Monomers, Their Exceptional Thermal Stability, and Carbon Dioxide Capture Capacity. <i>Chemistry of Materials</i> , 2014 , 26, 6729-6733	9.6	47
93	High pressure CO2 absorption studies on imidazolium-based ionic liquids: Experimental and simulation approaches. <i>Fluid Phase Equilibria</i> , 2013 , 351, 74-86	2.5	46
92	Investigation of Ester- and Amide-Linker-Based Porous Organic Polymers for Carbon Dioxide Capture and Separation at Wide Temperatures and Pressures. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 20772-85	9.5	43
91	Fluorinated Covalent Organic Polymers for High Performance Sulfur Cathodes in Lithium Sulfur Batteries. <i>Chemistry of Materials</i> , 2019 , 31, 7910-7921	9.6	39
90	CO2 adsorption studies on hydroxy metal carbonates M(CO3)x(OH)y (M = Zn, Zn-Mg, Mg, Mg-Cu, Cu, Ni, and Pb) at high pressures up to 175 bar. <i>Langmuir</i> , 2011 , 27, 10642-7	4	38
89	A combined computational and experimental study of high pressure and supercritical CO2 adsorption on Basolite MOFs. <i>Microporous and Mesoporous Materials</i> , 2013 , 175, 34-42	5.3	37
88	CO2 adsorption studies on Prussian blue analogues. <i>Microporous and Mesoporous Materials</i> , 2012 , 162, 91-97	5.3	37
87	Cross-Linked Poisonous Polymer: Thermochemically Stable Catalyst Support for Tuning Chemoselectivity. <i>ACS Catalysis</i> , 2016 , 6, 2435-2442	13.1	36

86	Amidoxime porous polymers for CO ₂ capture. <i>RSC Advances</i> , 2013 , 3, 17203	3.7	36
85	Insights of CO ₂ adsorption performance of amine impregnated mesoporous silica (SBA-15) at wide range pressure and temperature conditions. <i>International Journal of Greenhouse Gas Control</i> , 2015 , 43, 22-32	4.2	34
84	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
83	Observation of the wrapping mechanism in amine carbon dioxide molecular interactions on heterogeneous sorbents. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 14177-81	3.6	34
82	Catalytic Non-redox Carbon Dioxide Fixation in Cyclic Carbonates. <i>CheM</i> , 2019 , 5, 3232-3242	16.2	33
81	Nanoporous networks as effective stabilisation matrices for nanoscale zero-valent iron and groundwater pollutant removal. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 632-639	13	32
80	Limitations and high pressure behavior of MOF-5 for CO ₂ capture. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 14319-27	3.6	32
79	Highly optimized CO ₂ capture by inexpensive nanoporous covalent organic polymers and their amine composites. <i>Faraday Discussions</i> , 2015 , 183, 401-12	3.6	30
78	Synthesis of nanoporous 1,2,4-oxadiazole networks with high CO ₂ capture capacity. <i>Chemical Communications</i> , 2015 , 51, 2915-7	5.8	30
77	High-Pressure Methane, Carbon Dioxide, and Nitrogen Adsorption on Amine-Impregnated Porous Montmorillonite Nanoclays. <i>Journal of Chemical & Engineering Data</i> , 2016 , 61, 2749-2760	2.8	30
76	Redox and Nonredox CO ₂ Utilization: Dry Reforming of Methane and Catalytic Cyclic Carbonate Formation. <i>ACS Energy Letters</i> , 2020 , 5, 1689-1700	20.1	27
75	Covalent organic polymer functionalization of activated carbon surfaces through acyl chloride for environmental clean-up. <i>Chemical Engineering Journal</i> , 2017 , 309, 766-771	14.7	26
74	Influence of Aminosilane Coupling Agent on Aromatic Polyamide/Intercalated Clay Nanocomposites. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 6908-6915	3.9	25
73	Covalent organic polymer framework with C=O bonds as a fluorescent probe for selective iron detection. <i>RSC Advances</i> , 2015 , 5, 69010-69015	3.7	24
72	Granular activated carbon with grafted nanoporous polymer enhances nanoscale zero-valent iron impregnation and water contaminant removal. <i>Chemical Engineering Journal</i> , 2018 , 339, 22-31	14.7	24
71	Rapid extraction of uranium ions from seawater using novel porous polymeric adsorbents. <i>RSC Advances</i> , 2016 , 6, 45968-45976	3.7	24
70	Disulfide polymer grafted porous carbon composites for heavy metal removal from stormwater runoff. <i>Chemical Engineering Journal</i> , 2018 , 348, 685-692	14.7	24
69	Reversible water capture by a charged metal-free porous polymer. <i>Polymer</i> , 2017 , 126, 308-313	3.9	23

68	Gold Recovery from E-Waste by Porous PorphyrinPhenazine Network Polymers. <i>Chemistry of Materials</i> , 2020 , 32, 5343-5349	9.6	22
67	Sustainable Porous Polymer Catalyst for Size-Selective Cross-Coupling Reactions. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 10865-10872	8.3	20
66	Radioactive Strontium Removal from Seawater by a MOF via Two-Step Ion Exchange. <i>Chem</i> , 2019 , 5, 750-752	16.2	20
65	Triazatruxene-Based Ordered Porous Polymer: High Capacity CO ₂ , CH ₄ , and H ₂ Capture, Heterogeneous SuzukiMiyaura Catalytic Coupling, and Thermoelectric Properties. <i>ACS Applied Energy Materials</i> , 2020 , 3, 4983-4994	6.1	20
64	Applying analytical ultracentrifugation to nanocrystal suspensions. <i>Nanotechnology</i> , 2009 , 20, 355702	3.4	20
63	Direct Access to Primary Amines and Particle Morphology Control in Nanoporous CO Sorbents. <i>ChemSusChem</i> , 2017 , 10, 2130-2134	8.3	18
62	Photochemically Enhanced Selective Adsorption of Gold Ions on Tannin-Coated Porous Polymer Microspheres. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 21915-21925	9.5	17
61	Selective removal of cationic micro-pollutants using disulfide-linked network structures. <i>RSC Advances</i> , 2017 , 7, 25969-25977	3.7	17
60	Gold recovery using porphyrin-based polymer from electronic wastes: Gold desorption and adsorbent regeneration. <i>Science of the Total Environment</i> , 2020 , 704, 135405	10.2	17
59	Exceptional organic solvent uptake by disulfide-linked polymeric networks. <i>RSC Advances</i> , 2014 , 4, 24320-7	3.7	16
58	Influence of interlayer functionalization of kaolinite on property profile of copolymer nanocomposites. <i>Applied Clay Science</i> , 2015 , 112-113, 25-31	5.2	16
57	Charge induced formation of crystalline network polymers. <i>RSC Advances</i> , 2014 , 4, 59779-59784	3.7	16
56	Arsenic removal by magnetic nanocrystalline barium hexaferrite. <i>Journal of Nanoparticle Research</i> , 2012 , 14, 1	2.3	16
55	Nanoporous Polymer Microspheres with Nitrile and Amidoxime Functionalities for Gas Capture and Precious Metal Recovery from E-Waste. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 123-128	8.3	16
54	Inversion of Dispersion: Colloidal Stability of Calixarene-Modified Metal-Organic Framework Nanoparticles in Nonpolar Media. <i>Journal of the American Chemical Society</i> , 2019 , 141, 12182-12186	16.4	15
53	Nanoporous networks as caging supports for uniform, surfactant-free Co ₃ O ₄ nanocrystals and their applications in energy storage and conversion. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 15489-15497	13.7	15
52	Synthesis and Easy Functionalization of Highly Porous Networks through Exchangeable Fluorines for Target Specific Applications. <i>Chemistry of Materials</i> , 2016 , 28, 5592-5595	9.6	15
51	Enhanced Sorption Cycle Stability and Kinetics of CO ₂ on Lithium Silicates Using the Lithium Ion Channeling Effect of TiO ₂ Nanotubes. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 3413-3417	3.9	14

50	Sustainable Synthesis of Superhydrophobic Perfluorinated Nanoporous Networks for Small Molecule Separation. <i>Chemistry of Materials</i> , 2019 , 31, 5206-5213	9.6	14
49	Synthesis, characterization and evaluation of porous polybenzimidazole materials for CO ₂ adsorption at high pressures. <i>Adsorption</i> , 2016 , 22, 247-260	2.6	14
48	Conductive nanocomposite materials derived from SEBS-g-PPy and surface modified clay. <i>Composites Science and Technology</i> , 2014 , 100, 44-52	8.6	14
47	Increasing mesoporosity by a silica hard template in a covalent organic polymer for enhanced amine loading and CO ₂ capture capacity. <i>Microporous and Mesoporous Materials</i> , 2016 , 229, 44-50	5.3	13
46	A combined experimental and theoretical study on gas adsorption performance of amine and amide porous polymers. <i>Microporous and Mesoporous Materials</i> , 2019 , 279, 61-72	5.3	12
45	How Reproducible are Surface Areas Calculated from the BET Equation?. <i>Advanced Materials</i> , 2020 , 32, 2201502	2.4	12
44	A Novel, Reactive Green Iron Sulfide (Sulfide Green Rust) Formed on Iron Oxide Nanocrystals. <i>Chemistry of Materials</i> , 2015 , 27, 700-707	9.6	11
43	Quaternary ammonium salt grafted nanoporous covalent organic polymer for atmospheric CO ₂ fixation and cyclic carbonate formation. <i>Catalysis Today</i> , 2020 , 356, 527-534	5.3	11
42	Rapid Access to Ordered Mesoporous Carbons for Chemical Hydrogen Storage. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 22478-22486	16.4	11
41	Quantifying the nitrogen effect on CO capture using isoporous network polymers. <i>Chemical Communications</i> , 2020 , 56, 4273-4275	5.8	10
40	Direct Z-Scheme Tannin@TiO ₂ Heterostructure for Photocatalytic Gold Ion Recovery from Electronic Waste. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 7359-7370	8.3	10
39	Molecular Insights into Benzimidazole-Linked Polymer Interactions with Carbon Dioxide and Nitrogen. <i>ChemistrySelect</i> , 2018 , 3, 3691-3701	1.8	10
38	Magnetic BaFe ₁₂ O ₁₉ nanofiber filter for effective separation of Fe ₃ O ₄ nanoparticles and removal of arsenic. <i>Journal of Nanoparticle Research</i> , 2014 , 16, 1	2.3	10
37	A multiplexed separation of iron oxide nanocrystals using variable magnetic fields. <i>Nanoscale</i> , 2011 , 3, 4560-3	7.7	10
36	Robust C-C bonded porous networks with chemically designed functionalities for improved CO capture from flue gas. <i>Beilstein Journal of Organic Chemistry</i> , 2016 , 12, 2274-2279	2.5	10
35	A catalytic role of surface silanol groups in CO capture on the amine-anchored silica support. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 12149-12156	3.6	9
34	An All-Purpose Porous Cleaner for Acid Gas Removal and Dehydration of Natural Gas. <i>Chem</i> , 2017 , 3, 719-721	16.2	9
33	Investigation on novel thermoplastic poly(urethane-thiourea-imide)s with enhanced chemical and heat resistance. <i>Polymer Degradation and Stability</i> , 2011 , 96, 1333-1341	4.7	9

32	Covalent Amine Tethering on Ketone Modified Porous Organic Polymers for Enhanced CO Capture. <i>ChemSusChem</i> , 2020 , 13, 6433-6441	8.3	8
31	Disulfide polymer grafted polypropylene/polyethylene filter media for selective cadmium removal. <i>Journal of Hazardous Materials</i> , 2020 , 399, 123060	12.8	7
30	Nanostructure and mechanical properties of aromatic polyamide and reactive organoclay nanocomposites. <i>Materials Chemistry and Physics</i> , 2014 , 147, 636-643	4.4	7
29	Bisphenol-based cyanide sensing: Selectivity, reversibility, facile synthesis, bilateral "OFF-ON" fluorescence, C structural and conformational analysis. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021 , 259, 119881	4.4	7
28	Zwitterion conjugated network polymer based on guanidinium and ketoenol as a heterogeneous organo-catalyst for chemical fixation of CO ₂ into cyclic carbonates. <i>APL Materials</i> , 2019 , 7, 111102	5.7	6
27	Toward open source nano: Arsenic removal and alternative models of technology transfer. <i>Advances in the Study of Entrepreneurship, Innovation, and Economic Growth</i> , 2009 , 51-78		6
26	High performance CO ₂ filtration and sequestration by using bromomethyl benzene linked microporous networks. <i>RSC Advances</i> , 2016 , 6, 66324-66335	3.7	6
25	Monitoring instability of linear amine impregnated UiO-66 by in-situ temperature resolved powder X-ray diffraction. <i>Microporous and Mesoporous Materials</i> , 2017 , 243, 85-90	5.3	5
24	Applicability of disulfide-polymer particles surface embedded on alginate beads for cadmium removal from airport derived stormwater. <i>Journal of Environmental Chemical Engineering</i> , 2018 , 6, 4124-4129	6.8	5
23	One-pot facile synthesis of PEGylated Au nanoparticles in an aqueous media. <i>Materials Chemistry and Physics</i> , 2012 , 134, 1153-1159	4.4	5
22	Sustainable Nanoporous Benzoxazole Networks as Metal-Free Catalysts for One-Pot Oxidative Self-Coupling of Amines by Air Oxygen. <i>Advanced Sustainable Systems</i> , 2017 , 1, 1700089	5.9	5
21	Structural Elucidation of Covalent Organic Polymers (COP) and Their Linker Effect on Gas Adsorption Performance via Density Functional Theory Approach. <i>ChemistrySelect</i> , 2018 , 3, 8294-8305	1.8	5
20	Thiourea-Based Extraction and Deposition of Gold for Electroless Nickel Immersion Gold Process. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 8086-8092	3.9	4
19	Asynchronous Double Schiff Base Formation of Pyrazole Porous Polymers for Selective Pd Recovery. <i>Advanced Science</i> , 2021 , 8, 2001676	13.6	4
18	Extensive Screening of Solvent-Linked Porous Polymers through Friedel-Crafts Reaction for Gas Adsorption. <i>Advanced Energy and Sustainability Research</i> , 2021 , 2, 2100064	1.6	4
17	Solvent Vapor Annealing, Defect Analysis, and Optimization of Self-Assembly of Block Copolymers Using Machine Learning Approaches. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 28639-28649	9.5	4
16	Light-activated polydopamine coatings for efficient metal recovery from electronic waste. <i>Separation and Purification Technology</i> , 2021 , 254, 117674	8.3	4
15	Robust Mesoporous Zr-MOF with Pd Nanoparticles for Formic-Acid-Based Chemical Hydrogen Storage. <i>Matter</i> , 2021 , 4, 10-12	12.7	4

14	Polypyrrole Decorated Mechanically Robust Conductive Nanocomposites via Solution Blending and in Situ Polymerization Techniques. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 10886-10893	3.9	3
13	Alkyl-Linked Porphyrin Porous Polymers for Gas Capture and Precious Metal Adsorption. <i>Small Science</i> , 2021 , 1, 2000078		3
12	Processing nanoporous organic polymers in liquid amines. <i>Beilstein Journal of Nanotechnology</i> , 2019 , 10, 1844-1850	3	3
11	Cesium Ion-Mediated Microporous Carbon for CO ₂ Capture and Lithium-Ion Storage. <i>ChemNanoMat</i> , 2021 , 7, 150-157	3.5	3
10	A Hybrid Machine Learning Model to Study UV-Vis Spectra of Gold Nanospheres. <i>Plasmonics</i> , 2021 , 16, 147-155	2.4	3
9	Low-overpotential overall water splitting by a cooperative interface of cobalt-iron hydroxide and iron oxyhydroxide. <i>Cell Reports Physical Science</i> , 2022 , 3, 100762	6.1	3
8	Arsenic removal by magnetic nanocrystalline barium hexaferrite 2012 , 163-169		2
7	Reaction: Porous Organic Polymers for Uranium Capture. <i>Chem</i> , 2021 , 7, 276-277	16.2	2
6	Rapid Access to Ordered Mesoporous Carbons for Chemical Hydrogen Storage. <i>Angewandte Chemie</i> , 2021 , 133, 22652-22660	3.6	2
5	Phosphorus stimulated unidirectional growth of TiO ₂ nanostructures. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 6091	13	1
4	Optimizing bromide anchors for easy tethering of amines, nitriles and thiols in porous organic polymers towards enhanced CO ₂ capture. <i>Microporous and Mesoporous Materials</i> , 2021 , 328, 111450	5.3	1
3	EEWS 2016: Progress and Perspectives of Energy Science and Technology. <i>ACS Energy Letters</i> , 2017 , 2, 592-594	20.1	
2	Exceptional CO ₂ capture via polymeric materials 2012 , 38-41		
1	Engineered Nanoparticles for Water Treatment Application 2016 , 20-30		