## Achim Iulian Dugulan

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Supported Iron Nanoparticles as Catalysts for Sustainable Production of Lower Olefins. Science, 2012, 335, 835-838.	12.6	1,001
2	Iron Particle Size Effects for Direct Production of Lower Olefins from Synthesis Gas. Journal of the American Chemical Society, 2012, 134, 16207-16215.	13.7	390
3	Metal organic framework-mediated synthesis of highly active and stable Fischer-Tropsch catalysts. Nature Communications, 2015, 6, 6451.	12.8	325
4	Effects of sodium and sulfur on catalytic performance of supported iron catalysts for the Fischer–Tropsch synthesis of lower olefins. Journal of Catalysis, 2013, 303, 22-30.	6.2	217
5	Relationship between Iron Carbide Phases (ε-Fe <sub>2</sub> C, Fe <sub>7</sub> C <sub>3</sub> , and) Tj ETQq1 Catalysts. ACS Catalysis, 2018, 8, 3304-3316.	1 0.78431 11.2	l4 rgBT /O∨ 200
6	Vivianite as the main phosphate mineral in digested sewage sludge and its role for phosphate recovery. Water Research, 2018, 144, 312-321.	11.3	186
7	Elucidating the Nature of Fe Species during Pyrolysis of the Fe-BTC MOF into Highly Active and Stable Fischer–Tropsch Catalysts. ACS Catalysis, 2016, 6, 3236-3247.	11.2	176
8	Vivianite as an important iron phosphate precipitate in sewage treatment plants. Water Research, 2016, 104, 449-460.	11.3	154
9	Size and Promoter Effects in Supported Iron Fischer–Tropsch Catalysts: Insights from Experiment and Theory. ACS Catalysis, 2016, 6, 3147-3157.	11.2	138
10	Synthesis of stable and low-CO <sub>2</sub> selective ε-iron carbide Fischer-Tropsch catalysts. Science Advances, 2018, 4, eaau2947.	10.3	126
11	Direct Evidence of Water-Assisted Sintering of Cobalt on Carbon Nanofiber Catalysts during Simulated Fischerâ^'Tropsch Conditions Revealed with in Situ Mössbauer Spectroscopy. Journal of the American Chemical Society, 2010, 132, 8540-8541.	13.7	120
12	Size and Promoter Effects on Stability of Carbon-Nanofiber-Supported Iron-Based Fischer–Tropsch Catalysts. ACS Catalysis, 2016, 6, 4017-4024.	11.2	118
13	Controlled formation of iron carbides and their performance in Fischer-Tropsch synthesis. Journal of Catalysis, 2018, 362, 106-117.	6.2	108
14	Effect of precursor on the catalytic performance of supported iron catalysts for the Fischer–Tropsch synthesis of lower olefins. Catalysis Today, 2013, 215, 95-102.	4.4	76
15	Magnetic separation and characterization of vivianite from digested sewage sludge. Separation and Purification Technology, 2019, 224, 564-579.	7.9	71
16	Full-scale increased iron dosage to stimulate the formation of vivianite and its recovery from digested sewage sludge. Water Research, 2020, 182, 115911.	11.3	68
17	Fabrication of Fischer–Tropsch Catalysts by Deposition of Iron Nanocrystals on Carbon Nanotubes. Advanced Functional Materials, 2015, 25, 5309-5319.	14.9	57
18	On the structure and hydrotreating performance of carbon-supported CoMo- and NiMo-sulfides. Applied Catalysis B: Environmental, 2013, 142-143, 178-186.	20.2	49

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19	Understanding and improving the reusability of phosphate adsorbents for wastewater effluent polishing. Water Research, 2018, 145, 365-374.	11.3	49
20	Chemical looping capabilities of olivine, used as a catalyst in indirect biomass gasification. Applied Catalysis B: Environmental, 2014, 145, 216-222.	20.2	44
21	Strategies for synthesis of Prussian blue analogues. Royal Society Open Science, 2021, 8, 201779.	2.4	43
22	Ordered Mesoporous Materials as Supports for Stable Iron Catalysts in the Fischer–Tropsch Synthesis of Lower Olefins. ChemCatChem, 2016, 8, 2846-2852.	3.7	35
23	Active phases for high temperature Fischer-Tropsch synthesis in the silica supported iron catalysts promoted with antimony and tin. Applied Catalysis B: Environmental, 2021, 292, 120141.	20.2	35
24	High-pressure sulfidation of a calcined CoMo/Al2O3 hydrodesulfurization catalyst. Catalysis Today, 2008, 130, 126-134.	4.4	32
25	Efficient Promoters and Reaction Paths in the CO <sub>2</sub> Hydrogenation to Light Olefins over Zirconia-Supported Iron Catalysts. ACS Catalysis, 2022, 12, 3211-3225.	11.2	29
26	Promoted Iron Nanocrystals Obtained via Ligand Exchange as Active and Selective Catalysts for Synthesis Gas Conversion. ACS Catalysis, 2017, 7, 5121-5128.	11.2	26
27	Vivianite scaling in wastewater treatment plants: Occurrence, formation mechanisms and mitigation solutions. Water Research, 2021, 197, 117045.	11.3	23
28	Kinetic-arrest-induced phase coexistence and metastability in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"&gt;<mml:mrow><mml:msub><mml:mrow><mml:mo>(<td>:mo&gt;<mn 3.2</mn </td><td>nl:mrow&gt;<mr< td=""></mr<></td></mml:mo></mml:mrow></mml:msub></mml:mrow></mml:math 	:mo> <mn 3.2</mn 	nl:mrow> <mr< td=""></mr<>
	Physical Review B, 2016, 94, .		
29	Co–Mo/Al2O3 hydrodesulfurization catalysts. Journal of Catalysis, 2004, 222, 281-284.	6.2	18
30	The role of H2 in Fe carburization by CO in Fischer-Tropsch catalysts. Journal of Catalysis, 2021, 400, 93-102.	6.2	17
31	High-temperature Fischer-Tropsch synthesis over FeTi mixed oxide model catalysts: Tailoring activity and stability by varying the Ti/Fe ratio. Applied Catalysis A: General, 2017, 533, 38-48.	4.3	16
32	The evolution of the active phase in CoMo/C hydrodesulfurization catalysts under industrial conditions: a high-pressure M�ssbauer emission spectroscopy study. Journal of Catalysis, 2005, 229, 276-282.	6.2	15
33	The role of chromium in iron-based high-temperature water-gas shift catalysts under industrial conditions. Applied Catalysis B: Environmental, 2021, 297, 120465.	20.2	15
34	Identification of Iron Carbides in Fe(â^'Naâ^'S)∬±â€Al <sub>2</sub> O <sub>3</sub> Fischerâ€Tropsch Synthesis Catalysts with Xâ€ray Powder Diffractometry and Mössbauer Absorption Spectroscopy. ChemCatChem, 2020, 12, 5121-5139.	3.7	13
35	Sintering and carbidization under simulated high conversion on a cobalt-based Fischer-Tropsch catalyst; manganese oxide as a structural promotor. Journal of Catalysis, 2022, 413, 106-118.	6.2	12
36	Synthesis and activation for catalysis of Fe-SAPO-34 prepared using iron polyamine complexes as structure directing agents. Catalysis Science and Technology, 2017, 7, 4366-4374.	4.1	10

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37	Isotopic Exchange Study on the Kinetics of Fe Carburization and the Mechanism of the Fischer–Tropsch Reaction. ACS Catalysis, 2022, 12, 2877-2887.	11.2	10
38	Efficient formation of vivianite without anaerobic digester: Study in excess activated sludge. Journal of Environmental Chemical Engineering, 2022, 10, 107473.	6.7	9
39	Copper promotion of chromium-doped iron oxide water-gas shift catalysts under industrially relevant conditions. Journal of Catalysis, 2022, 405, 391-403.	6.2	7
40	Stability of Colloidal Iron Oxide Nanoparticles on Titania and Silica Support. Chemistry of Materials, 2020, 32, 5226-5235.	6.7	6
41	Role of surface carboxylate deposition on the deactivation of cobalt on titania Fischer-Tropsch catalysts. Catalysis Today, 2021, 369, 144-149.	4.4	6
42	Effect of pressure on the sulfidation behavior of NiW catalysts: A 182W Mössbauer spectroscopy study. Catalysis Today, 2010, 150, 224-230.	4.4	4
43	Siteâ€Specific Iron Substitution in STAâ€28, a Large Pore Aluminophosphate Zeotype Prepared by Using 1,10â€Phenanthrolines as Frameworkâ€Bound Templates. Angewandte Chemie - International Edition, 2020, 59, 15186-15190.	13.8	4
44	Site‧pecific Iron Substitution in STAâ€28, a Large Pore Aluminophosphate Zeotype Prepared by Using 1,10â€Phenanthrolines as Frameworkâ€Bound Templates. Angewandte Chemie, 2020, 132, 15298-15302.	2.0	2
45	Effect of Co and Ni doping on the structure, magnetic and magnetocaloric properties of Fe-rich (Mn,Fe)2(P,Si) compounds. Journal of Magnetism and Magnetic Materials, 2022, 561, 169710.	2.3	2
46	Synthesis of Stable and Low-CO <sub>2</sub> Selective Phase-Pure ε-Iron Carbide Catalysts in Synthesis Gas Conversion. ACS Symposium Series, 2020, , 229-255.	0.5	1