

# Dante A Simonetti

## List of Publications by Year in descending order

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41  
papers

2,238  
citations

430754

18  
h-index

265120

42  
g-index

43  
all docs

43  
docs citations

43  
times ranked

2598  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dissolution Amplification by Resonance and Cavitation Stimulation at Ultrasonic and Megasonic Frequencies. <i>Journal of Physical Chemistry C</i> , 2022, 126, 3432-3442.	1.5	5
2	Process Simulations Reveal the Carbon Dioxide Removal Potential of a Process That Mineralizes Industrial Waste Streams via an Ion Exchange-Based Regenerable pH Swing. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 6255-6264.	3.2	3
3	How Brine Composition Affects Fly Ash Reactions: The Influence of (Cat-, An-)ion Type. <i>Advances in Civil Engineering Materials</i> , 2022, 11, 619-638.	0.2	3
4	The role of gas flow distributions on CO <sub>2</sub> mineralization within monolithic cemented composites: coupled CFD-factorial design approach. <i>Reaction Chemistry and Engineering</i> , 2021, 6, 494-504.	1.9	5
5	Saline Water-Based Mineralization Pathway for Gigatonne-Scale CO <sub>2</sub> Management. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 1073-1089.	3.2	53
6	Impacts of metal oxide additives on the capacity and stability of calcium oxide based materials for the reactive sorption of CO <sub>2</sub> . <i>Sustainable Energy and Fuels</i> , 2021, 5, 767-778.	2.5	6
7	A Career in Catalysis: James A. Dumesic. <i>ACS Catalysis</i> , 2021, 11, 2310-2339.	5.5	5
8	Selective sulfur removal from semi-dry flue gas desulfurization coal fly ash for concrete and carbon dioxide capture applications. <i>Waste Management</i> , 2021, 121, 117-126.	3.7	23
9	Predicting zeolites™ stability during the corrosion of nuclear waste immobilization glasses: Comparison with glass corrosion experiments. <i>Journal of Nuclear Materials</i> , 2021, 547, 152813.	1.3	3
10	Fly Ash Ca(OH) <sub>2</sub> Reactivity in Hypersaline NaCl and CaCl <sub>2</sub> Brines. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 8561-8571.	3.2	7
11	Controls on CO <sub>2</sub> Mineralization Using Natural and Industrial Alkaline Solids under Ambient Conditions. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 10727-10739.	3.2	25
12	New insights into the mechanisms of carbon dioxide mineralization by portlandite. <i>AIChE Journal</i> , 2021, 67, e17160.	1.8	14
13	Lanthanum induced lattice strain improves hydrogen sulfide capacities of copper oxide adsorbents. <i>AIChE Journal</i> , 2021, 67, e17484.	1.8	3
14	Linear Driving Force Approximations as Predictive Models for Reactive Sorption. <i>Energy Technology</i> , 2020, 8, 1900718.	1.8	3
15	Insights into Copper Sulfide Formation from Cu and S K edge XAS and DFT studies. <i>Inorganic Chemistry</i> , 2020, 59, 15276-15288.	1.9	8
16	Atomic Dislocations and Bond Rupture Govern Dissolution Enhancement under Acoustic Stimulation. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 55399-55410.	4.0	6
17	Enhancing Polyvalent Cation Rejection Using Perfluorophenylazide-Grafted-Copolymer Membrane Coatings. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 42030-42040.	4.0	11
18	Implementation of Ion Exchange Processes for Carbon Dioxide Mineralization Using Industrial Waste Streams. <i>Frontiers in Energy Research</i> , 2020, 8, .	1.2	6

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19	The effects of (di- and tri-valent) cation partitioning and intercalant anion type on the solubility of hydrothermalites. <i>Journal of the American Ceramic Society</i> , 2020, 103, 6025-6039.	1.9	14
20	Mineral Dissolution under Electric Stimulation. <i>Journal of Physical Chemistry C</i> , 2020, 124, 16515-16523.	1.5	1
21	Targeted morphology of copper oxide based electrospun nanofibers. <i>Chemical Engineering Science</i> , 2020, 219, 115547.	1.9	4
22	How Microstructure and Pore Moisture Affect Strength Gain in Portlandite-Enriched Composites That Mineralize CO <sub>2</sub> . <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 13053-13061.	3.2	44
23	Effects of Morphology and Surface Properties of Copper Oxide on the Removal of Hydrogen Sulfide from Gaseous Streams. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 18836-18847.	1.8	21
24	Improved Sorption-Enhanced Steam Methane Reforming via Calcium Oxide-Based Sorbents with Targeted Morphology. <i>Energy Technology</i> , 2019, 7, 1800807.	1.8	16
25	Isothermal Stimulation of Mineral Dissolution Processes by Acoustic Perturbation. <i>Journal of Physical Chemistry C</i> , 2018, 122, 28665-28673.	1.5	10
26	Direct observation of the kinetics of gas-solid reactions using <i>in situ</i> kinetic and spectroscopic techniques. <i>Reaction Chemistry and Engineering</i> , 2018, 3, 668-675.	1.9	8
27	Catalytic routes to fuels from C <sub>1</sub> and oxygenate molecules. <i>Faraday Discussions</i> , 2017, 197, 9-39.	1.6	20
28	Selective Homogeneous and Heterogeneous Catalytic Conversion of Methanol/Dimethyl Ether to Triptane. <i>Accounts of Chemical Research</i> , 2012, 45, 653-662.	7.6	39
29	Acid strength and solvation effects on methylation, hydride transfer, and isomerization rates during catalytic homologation of C <sub>1</sub> species. <i>Journal of Catalysis</i> , 2012, 285, 19-30.	3.1	57
30	Reaction Kinetics of Ethylene Glycol Reforming over Platinum in the Vapor versus Aqueous Phases. <i>Journal of Physical Chemistry C</i> , 2011, 115, 961-971.	1.5	68
31	Mechanistic details of acid-catalyzed reactions and their role in the selective synthesis of triptane and isobutane from dimethyl ether. <i>Journal of Catalysis</i> , 2011, 277, 173-195.	3.1	81
32	Catalytic C-Homologation of Alkanes and Dimethyl Ether and Promotion by Adamantane as a Hydride Transfer Co-catalyst. <i>ChemCatChem</i> , 2011, 3, 704-718.	1.8	26
33	Catalytic conversion of biomass-derived carbohydrates to fuels and chemicals by formation and upgrading of mono-functional hydrocarbon intermediates. <i>Catalysis Today</i> , 2009, 147, 115-125.	2.2	127
34	An integrated catalytic approach for the production of hydrogen by glycerol reforming coupled with water-gas shift. <i>Applied Catalysis B: Environmental</i> , 2009, 90, 693-698.	10.8	103
35	Catalytic Production of Liquid Fuels from Biomass-Derived Oxygenated Hydrocarbons: Catalytic Coupling at Multiple Length Scales. <i>Catalysis Reviews - Science and Engineering</i> , 2009, 51, 441-484.	5.7	110
36	Catalytic Strategies for Changing the Energy Content and Achieving C-C Coupling in Biomass-Derived Oxygenated Hydrocarbons. <i>ChemSusChem</i> , 2008, 1, 725-733.	3.6	93

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37	Catalytic Conversion of Biomass to Monofunctional Hydrocarbons and Targeted Liquid-Fuel Classes. Science, 2008, 322, 417-421.	6.0	840
38	The role of rhenium in the conversion of glycerol to synthesis gas over carbon supported platinum-rhenium catalysts. Journal of Catalysis, 2008, 260, 164-177.	3.1	171
39	Coupling of glycerol processing with Fischer-Tropsch synthesis for production of liquid fuels. Green Chemistry, 2007, 9, 1073.	4.6	103
40	Effect of heating rate on kinetics of high-temperature reactions: Mo-Si system. AIChE Journal, 2005, 51, 261-270.	1.8	22
41	Rapid Elemental Extraction from Ordered and Disordered Solutes by Acoustically-Stimulated Dissolution. ACS Engineering Au, 0, , .	2.3	1