

Janna V Veselovskaya

List of Publications by Year in descending order

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Version: 2024-02-01

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papers

565
citations

687363

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docs citations

20
times ranked

481
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct CO ₂ capture from ambient air using K ₂ CO ₃ /Al ₂ O ₃ composite sorbent. International Journal of Greenhouse Gas Control, 2013, 17, 332-340.	4.6	102
2	Novel ammonia sorbents –porous matrix modified by active salt–for adsorptive heat transformation: 3. Testing of –BaCl ₂ /vermiculite–composite in a lab-scale adsorption chiller. Applied Thermal Engineering, 2010, 30, 1188-1192.	6.0	64
3	Direct CO ₂ capture from ambient air using K ₂ CO ₃ /Y ₂ O ₃ composite sorbent. Fuel, 2014, 127, 212-218.	6.4	52
4	Catalytic methanation of carbon dioxide captured from ambient air. Energy, 2018, 159, 766-773.	8.8	48
5	A Novel Process for Renewable Methane Production: Combining Direct Air Capture by K ₂ CO ₃ /Alumina Sorbent with CO ₂ Methanation over Ru/Alumina Catalyst. Topics in Catalysis, 2018, 61, 1528-1536.	2.8	44
6	Novel ammonia sorbents –porous matrix modified by active salt–for adsorptive heat transformation. Applied Thermal Engineering, 2010, 30, 584-589.	6.0	36
7	K ₂ CO ₃ -Containing Composite Sorbents Based on Thermally Modified Alumina: Synthesis, Properties, and Potential Application in a Direct Air Capture/Methanation Process. Industrial & Engineering Chemistry Research, 2020, 59, 7130-7139.	3.7	32
8	Novel ammonia sorbents –porous matrix modified by active salt–for adsorptive heat transformation: 2. Calcium chloride in ACF felt. Applied Thermal Engineering, 2010, 30, 845-849.	6.0	31
9	Catalytic process for methane production from atmospheric carbon dioxide utilizing renewable energy. Catalysis Today, 2017, 298, 117-123.	4.4	31
10	Novel ammonia sorbents –porous matrix modified by active salt–for adsorptive heat transformation: 4. Dynamics of quasi-isobaric ammonia sorption and desorption on BaCl ₂ /vermiculite. Applied Thermal Engineering, 2011, 31, 566-572.	6.0	30
11	Novel ammonia sorbents –porous matrix modified by active salt–for adsorptive heat transformation: 5. Designing the composite adsorbent for ice makers. Applied Thermal Engineering, 2012, 37, 80-86.	6.0	20
12	Novel ammonia sorbents –porous matrix modified by active salt–for adsorptive heat transformation: 6. The ways of adsorption dynamics enhancement. Applied Thermal Engineering, 2012, 37, 87-94.	6.0	19
13	K ₂ CO ₃ -containing composite sorbents based on a ZrO ₂ aerogel for reversible CO ₂ capture from ambient air. Microporous and Mesoporous Materials, 2021, 310, 110624.	4.4	19
14	Direct CO ₂ capture from ambient air by K ₂ CO ₃ /alumina composite sorbent for synthesis of renewable methane. Renewable Bioresources, 2015, 3, 1.	0.7	13
15	Ammonia sorption on the composites –(BaCl ₂ +BaBr ₂) inside vermiculite pores–. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 448, 169-174.	4.7	9
16	CO ₂ Methanation: Nickel–Alumina Catalyst Prepared by Solid-State Combustion. Materials, 2021, 14, 6789.	2.9	8
17	Kinetics of carbon dioxide absorption from air in a flow reactor with a fixed bed of K ₂ CO ₃ -based sorbent. Russian Journal of Physical Chemistry A, 2017, 91, 850-855.	0.6	4
18	Alkaline-Modified Activated Carbons for Removing Hydrogen Sulfide from Air via Sorption and Catalytic Oxidation: Studying the Effect of Thermal Treatment on the Properties of Materials. Catalysis in Industry, 2019, 11, 335-341.	0.7	2

#	ARTICLE	IF	CITATIONS
19	Operating limits and features of direct air capture on K ₂ CO ₃ /ZrO ₂ composite sorbent. Chinese Journal of Chemical Engineering, 2022, 46, 11-20.	3.5	1
20	Methane Production from Atmospheric Carbon Dioxide Utilizing Renewable Energy. , 0, , .		0