

Deniz Uner

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

1,678
citations

304743

22
h-index

289244

40
g-index

61
all docs

61
docs citations

61
times ranked

2398
citing authors

#	ARTICLE	IF	CITATIONS
1	Elucidating the role of adsorption during artificial photosynthesis: H ₂ O and CO ₂ adsorption isotherms over TiO ₂ reveal thermal effects under UV illumination. <i>Photosynthesis Research</i> , 2022, 154, 353-367.	2.9	1
2	The effect of H ₂ :N ₂ ratio on the NH ₃ synthesis rate and on process economics over the Co ₃ Mo ₃ N catalyst. <i>Faraday Discussions</i> , 2021, 229, 475-488.	3.2	2
3	Elucidating the Barriers on Direct Water Splitting: Key Role of Oxygen Vacancy Density and Coordination over PbTiO ₃ and TiO ₂ . <i>Journal of Physical Chemistry C</i> , 2021, 125, 1874-1880.	3.1	5
4	Construction of phase diagrams to estimate phase transitions at high pressures: A critical point at the solid liquid transition for benzene. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 15168-15180.	7.1	11
5	Dynamics: general discussion. <i>Faraday Discussions</i> , 2021, 229, 489-501.	3.2	0
6	Facilitating role of Pd for hydrogen, oxygen and water adsorption/desorption processes from bulk CeO ₂ and CeO ₂ /Al ₂ O ₃ . <i>Catalysis Today</i> , 2019, 323, 141-147.	4.4	17
7	Double Perovskite Structure Induced by Co Addition to PbTiO ₃ : Insights from DFT and Experimental Solid-State NMR Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2019, 123, 27132-27139.	3.1	8
8	Steam methane reforming over structured reactors under concentrated solar irradiation. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 18682-18693.	7.1	16
9	Finding the optimum between volatility and cycle temperatures in solar thermochemical hydrogen production: Pb/PbO pair. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 18671-18681.	7.1	5
10	H ₂ adsorption on Cu(I)-ZSM-5: Exploration of Cu(I)-exchange in solution. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 18866-18874.	7.1	6
11	In situ and downstream sulfidation reactivity of PbO and ZnO during pyrolysis and hydrogenation of a high-sulfur lignite. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 18827-18835.	7.1	3
12	Fundamentals of hydrogen storage processes over Ru/SiO ₂ and Ru/Vulcan. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 18903-18914.	7.1	7
13	H ₂ Adsorption on Cu(I)-SSZ-13. <i>Journal of Physical Chemistry C</i> , 2018, 122, 540-548.	3.1	16
14	Enhancement of hydrogen storage capacity of multi-walled carbon nanotubes with palladium doping prepared through supercritical CO ₂ deposition method. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 10755-10764.	7.1	19
15	Following the structure and reactivity of Tuncbilek lignite during pyrolysis and hydrogenation. <i>Fuel Processing Technology</i> , 2016, 152, 266-273.	7.2	17
16	Using spilled over hydrogen in NH ₃ synthesis over supported Ru catalysts. <i>Catalysis Today</i> , 2016, 272, 49-57.	4.4	7
17	The influence of relative humidity on photocatalytic oxidation of nitric oxide (NO) over TiO ₂ . <i>Applied Surface Science</i> , 2015, 354, 260-266.	6.1	20
18	Dry reforming of methane over CeO ₂ supported Ni, Co and Ni-Co catalysts. <i>Applied Catalysis B: Environmental</i> , 2015, 179, 128-138.	20.2	321

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19	Effect of process control agents on synthesizing nano-structured 2Mgâ€“9Niâ€“Y catalyst by mechanical milling and its catalytic effect on desorption capacity of MgH ₂ . Advanced Powder Technology, 2015, 26, 448-453.	4.1	23
20	A comparative study for synthesis methods of nano-structured (9Niâ€“2Mgâ€“Y) alloy catalysts and effect of the produced alloy on hydrogen desorption properties of MgH ₂ . International Journal of Hydrogen Energy, 2013, 38, 16090-16097.	7.1	16
21	Determination of kinetic parameters and hydrogen desorption characteristics of MgH ₂ -10Åwt% (9Niâ€“2Mgâ€“Y) nano-composite. International Journal of Hydrogen Energy, 2013, 38, 11910-11919.	7.1	66
22	On the mechanism of photocatalytic CO ₂ reduction with water in the gas phase. Catalysis Today, 2012, 181, 82-88.	4.4	68
23	NO oxidation and NO storage over Ceâ€“Zr mixed oxide supported catalysts. Catalysis Communications, 2011, 12, 450-453.	3.3	18
24	CO<SUB align=right>2 utilisation by photocatalytic conversion to methane and methanol. International Journal of Global Warming, 2011, 3, 142.	0.5	21
25	Sulfated Zirconia Modified SBA-15 Catalysts for Cellobiose Hydrolysis. Catalysis Letters, 2011, 141, 33-42.	2.6	54
26	Carbon Nanotube Structures as Support for Ethanol Electro-Oxidation Catalysis. International Journal of Chemical Reactor Engineering, 2011, 9, .	1.1	9
27	The Effect of Addition of Pt on the Gas Phase Photocatalysis over TiO ₂ . Nanostructure Science and Technology, 2010, , 479-501.	0.1	1
28	Selective methane bromination over sulfated zirconia in SBA-15 catalysts. Catalysis Today, 2009, 142, 30-33.	4.4	37
29	Pt-incorporated anatase TiO_2 for solar cell applications: First-principles density functional theory calculations. Physical Review B, 2009, 79, .	3.2	28
30	Determination of the dispersion of supported Pt particles by gas-phase and liquid-phase measurements. Catalysis Communications, 2009, 10, 1002-1005.	3.3	13
31	Synthesis and NMR Characterization of Titanium and Zirconium Oxides Incorporated in SBA-15. Topics in Catalysis, 2008, 49, 204-208.	2.8	18
32	Oxidation States and the Acidity of Ordered Arrays of Coâ€“Pb Mixed Oxide Nanoparticles Templated in SBA15. Topics in Catalysis, 2008, 49, 187-192.	2.8	1
33	Effect of Molecular and Electronic Structure on the Light-Harvesting Properties of Dye Sensitizers. Journal of Physical Chemistry C, 2007, 111, 7539-7547.	3.1	22
34	Single Step Synthesis of Mesoporous Co-Pb/SBA-15 Catalysts. Studies in Surface Science and Catalysis, 2007, , 317-320.	1.5	2
35	Liquid chromatography as a novel method for determination of the dispersion of supported Pd particles. Journal of Catalysis, 2007, 245, 267-271.	6.2	13
36	Dye sensitized artificial photosynthesis in the gas phase over thin and thick TiO ₂ films under UV and visible light irradiation. Applied Catalysis B: Environmental, 2007, 71, 291-297.	20.2	72

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37	Dye sensitized CO ₂ reduction over pure and platinumized TiO ₂ . Topics in Catalysis, 2007, 44, 523-528.	2.8	74
38	Sulfated zirconia in SBA-15 structures with strong Brønsted acidity as observed by ¹ H MAS NMR spectroscopy. Catalysis Letters, 2007, 115, 79-85.	2.6	22
39	Structure sensitivity of selective CO oxidation over Pt/γ-Al ₂ O ₃ . Journal of Catalysis, 2006, 241, 268-275.	6.2	71
40	Adsorption calorimetry in supported catalyst characterization: Adsorption structure sensitivity on Pt/γ-Al ₂ O ₃ . Thermochimica Acta, 2005, 434, 107-112.	2.7	25
41	Testing molten metal oxide catalysts over structured ceramic substrates for diesel soot oxidation. Catalysis Today, 2005, 105, 537-543.	4.4	12
42	Methane to higher hydrocarbons via halogenation. Catalysis Today, 2005, 106, 252-255.	4.4	35
43	A novel catalyst for diesel soot oxidation. Applied Catalysis B: Environmental, 2005, 61, 334-345.	20.2	51
44	Mechanisms of CO oxidation reaction and effect of chlorine ions on the CO oxidation reaction over Pt/CeO ₂ and Pt/CeO ₂ /γ-Al ₂ O ₃ catalysts. Applied Catalysis B: Environmental, 2004, 54, 183-191.	20.2	67
45	A simplified approach to determine the activation energies of uncatalyzed and catalyzed combustion of soot. Applied Catalysis B: Environmental, 2003, 40, 219-229.	20.2	79
46	Oxygen adsorption on Pt/TiO ₂ catalysts. Applied Catalysis A: General, 2003, 251, 225-234.	4.3	54
47	Use of seydiğir alumina as a support for CO oxidation catalysts. Chemical Engineering Communications, 2003, 190, 1073-1084.	2.6	1
48	Kinetics of Hydrogen Adsorption and Desorption on Silica-Supported Pt, Rh, and Ru Catalysts Studied by Solid State ¹ H NMR. Langmuir, 2002, 18, 4005-4009.	3.5	9
49	Harmonization of the empirical information on the de-NO _x catalysts for the comparison of the catalyst performance through reaction modeling. Studies in Surface Science and Catalysis, 2001, 133, 453-458.	1.5	2
50	Heterogeneous Photo- and Thermal Catalytic Oxidation of CO: Effects of Metal Deposition. Studies in Surface Science and Catalysis, 2001, , 445-451.	1.5	7
51	FTIR characterization of Ru/SiO ₂ catalyst for ammonia synthesis. Journal of Molecular Structure, 1999, 480-481, 241-245.	3.6	29
52	XPS and in-situ IR investigation of catalyst. Journal of Molecular Structure, 1997, 410-411, 111-114.	3.6	12
53	The role of alkali promoters in Fischer-Tropsch synthesis on Ru/SiO ₂ surfaces. Topics in Catalysis, 1995, 2, 59-69.	2.8	13
54	Optimization of the Volumetric Hydrogen Chemisorption Technique for Dispersions of Ru/SiO ₂ Catalysts. Journal of Catalysis, 1995, 156, 60-64.	6.2	42

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55	Hydrogen Chemisorption on Potassium Promoted Supported Ruthenium Catalysts. Journal of Catalysis, 1994, 146, 530-536.	6.2	43
56	An approximate solution for non-Newtonian flow in eccentric annuli. Industrial & Engineering Chemistry Research, 1988, 27, 698-701.	3.7	27
57	Critical Reynolds number for Newtonian flow in rectangular ducts. Industrial & Engineering Chemistry Research, 1988, 27, 1955-1957.	3.7	27
58	Artificial Photosynthesis from a Chemical Engineering Perspective. , 0, , .		1
59	On the Limits of Photocatalytic Water Splitting. , 0, , .		3
60	Comparative photodecolorization of red dye by anatase, rutile (TiO ₂), and wurtzite (ZnO) using response surface methodology. Turkish Journal of Chemistry, 0, , .	1.2	4