Deniz Uner

List of Publications by Year in descending order

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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	Dry reforming of methane over CeO2 supported Ni, Co and Niâ€“Co catalysts. Applied Catalysis B: Environmental, 2015, 179, 128-138.	20.2	321
2	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
3	Dye sensitized CO2 reduction over pure and platinized TiO2. Topics in Catalysis, 2007, 44, 523-528.	2.8	74
4	Dye sensitized artificial photosynthesis in the gas phase over thin and thick TiO2 films under UV and visible light irradiation. Applied Catalysis B: Environmental, 2007, 71, 291-297.	20.2	72
5	Structure sensitivity of selective CO oxidation over Pt/Î³-Al2O3. Journal of Catalysis, 2006, 241, 268-275.	6.2	71
6	On the mechanism of photocatalytic CO2 reduction with water in the gas phase. Catalysis Today, 2012, 181, 82-88.	4.4	68
7	Mechanisms of CO oxidation reaction and effect of chlorine ions on the CO oxidation reaction over Pt/CeO2 and Pt/CeO2/Î³-Al2O3 catalysts. Applied Catalysis B: Environmental, 2004, 54, 183-191.	20.2	67
8	Determination of kinetic parameters and hydrogen desorption characteristics of MgH2-10Âwt% (9Niâ€“2Mgâ€“Y) nano-composite. International Journal of Hydrogen Energy, 2013, 38, 11910-11919.	7.1	66
9	Oxygen adsorption on Pt/TiO2 catalysts. Applied Catalysis A: General, 2003, 251, 225-234.	4.3	54
10	Sulfated Zirconia Modified SBA-15 Catalysts for Cellobiose Hydrolysis. Catalysis Letters, 2011, 141, 33-42.	2.6	54
11	A novel catalyst for diesel soot oxidation. Applied Catalysis B: Environmental, 2005, 61, 334-345.	20.2	51
12	Hydrogen Chemisorption on Potassium Promoted Supported Ruthenium Catalysts. Journal of Catalysis, 1994, 146, 530-536.	6.2	43
13	Optimization of the Volumetric Hydrogen Chemisorption Technique for Dispersions of Ru/SiO2 Catalysts. Journal of Catalysis, 1995, 156, 60-64.	6.2	42
14	Selective methane bromination over sulfated zirconia in SBA-15 catalysts. Catalysis Today, 2009, 142, 30-33.	4.4	37
15	Methane to higher hydrocarbons via halogenation. Catalysis Today, 2005, 106, 252-255.	4.4	35
16	FTIR characterization of Ru/SiO2 catalyst for ammonia synthesis. Journal of Molecular Structure, 1999, 480-481, 241-245.	3.6	29
17	Pt-incorporated anatase<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>TiO</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> for solar cell applications: First-principles density functional theory calculations. Physical Review B, 2009, 79, .	3.2	28
18	An approximate solution for non-Newtonian flow in eccentric annuli. Industrial & Engineering Chemistry Research, 1988, 27, 698-701.	3.7	27

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19	Critical Reynolds number for Newtonian flow in rectangular ducts. Industrial & Engineering Chemistry Research, 1988, 27, 1955-1957.	3.7	27
20	Adsorption calorimetry in supported catalyst characterization: Adsorption structure sensitivity on Pt/Î³-Al2O3. Thermochimica Acta, 2005, 434, 107-112.	2.7	25
21	Effect of process control agents on synthesizing nano-structured 2Mgâ€“9Niâ€“Y catalyst by mechanical milling and its catalytic effect on desorption capacity of MgH2. Advanced Powder Technology, 2015, 26, 448-453.	4.1	23
22	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
23	Sulfated zirconia in SBA-15 structures with strong BrÃ¸nsted acidity as observed by 1H MAS NMR spectroscopy. Catalysis Letters, 2007, 115, 79-85.	2.6	22
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	The influence of relative humidity on photocatalytic oxidation of nitric oxide (NO) over TiO2. Applied Surface Science, 2015, 354, 260-266.	6.1	20
26	Enhancement of hydrogen storage capacity of multi-walled carbon nanotubes with palladium doping prepared through supercritical CO 2 deposition method. International Journal of Hydrogen Energy, 2018, 43, 10755-10764.	7.1	19
27	Synthesis and NMR Characterization of Titanium and Zirconium Oxides Incorporated in SBA-15. Topics in Catalysis, 2008, 49, 204-208.	2.8	18
28	NO oxidation and NO storage over Ceâ€“Zr mixed oxide supported catalysts. Catalysis Communications, 2011, 12, 450-453.	3.3	18
29	Following the structure and reactivity of Tuncbilek lignite during pyrolysis and hydrogenation. Fuel Processing Technology, 2016, 152, 266-273.	7.2	17
30	Facilitating role of Pd for hydrogen, oxygen and water adsorption/desorption processes from bulk CeO2 and CeO2/Î³-Al2O3. Catalysis Today, 2019, 323, 141-147.	4.4	17
31	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 MgH2. International Journal of Hydrogen Energy, 2013, 38, 16090-16097.	7.1	16
32	H₂ Adsorption on Cu(I)â€“SSZ-13. Journal of Physical Chemistry C, 2018, 122, 540-548.	3.1	16
33	Steam methane reforming over structured reactors under concentrated solar irradiation. International Journal of Hydrogen Energy, 2019, 44, 18682-18693.	7.1	16
34	The role of alkali promoters in Fischer-Tropsch synthesis on Ru/SiO2 surfaces. Topics in Catalysis, 1995, 2, 59-69.	2.8	13
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	Determination of the dispersion of supported Pt particles by gas-phase and liquid-phase measurements. Catalysis Communications, 2009, 10, 1002-1005.	3.3	13

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37	XPS and in-situ IR investigation of catalyst. Journal of Molecular Structure, 1997, 410-411, 111-114.	3.6	12
38	Testing molten metal oxide catalysts over structured ceramic substrates for diesel soot oxidation. Catalysis Today, 2005, 105, 537-543.	4.4	12
39	Construction of phase diagrams to estimate phase transitions at high pressures: A critical point at the solid liquid transition for benzene. International Journal of Hydrogen Energy, 2021, 46, 15168-15180.	7.1	11
40	Kinetics of Hydrogen Adsorption and Desorption on Silica-Supported Pt, Rh, and Ru Catalysts Studied by Solid State1H NMR. Langmuir, 2002, 18, 4005-4009.	3.5	9
41	Carbon Nanotube Structures as Support for Ethanol Electro-Oxidation Catalysis. International Journal of Chemical Reactor Engineering, 2011, 9, .	1.1	9
42	Double Perovskite Structure Induced by Co Addition to PbTiO₃: Insights from DFT and Experimental Solid-State NMR Spectroscopy. Journal of Physical Chemistry C, 2019, 123, 27132-27139.	3.1	8
43	Heterogeneous Photo- and Thermal Catalytic Oxidation of CO: Effects of Metal Deposition. Studies in Surface Science and Catalysis, 2001, , 445-451.	1.5	7
44	Using spilled over hydrogen in NH3 synthesis over supported Ru catalysts. Catalysis Today, 2016, 272, 49-57.	4.4	7
45	Fundamentals of hydrogen storage processes over Ru/SiO2 and Ru/Vulcan. International Journal of Hydrogen Energy, 2019, 44, 18903-18914.	7.1	7
46	H2 adsorption on Cu(I)-ZSM-5: Exploration of Cu(I)-exchange in solution. International Journal of Hydrogen Energy, 2019, 44, 18866-18874.	7.1	6
47	Finding the optimum between volatility and cycle temperatures in solar thermochemical hydrogen production: Pb/PbO pair. International Journal of Hydrogen Energy, 2019, 44, 18671-18681.	7.1	5
48	Elucidating the Barriers on Direct Water Splitting: Key Role of Oxygen Vacancy Density and Coordination over PbTiO₃ and TiO₂. Journal of Physical Chemistry C, 2021, 125, 1874-1880.	3.1	5
49	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
50	In situ and downstream sulfidation reactivity of PbO and ZnO during pyrolysis and hydrogenation of a highâ€“sulfur lignite. International Journal of Hydrogen Energy, 2019, 44, 18827-18835.	7.1	3
51	On the Limits of Photocatalytic Water Splitting. , 0, , .		3
52	Harmonization of the empirical information on the de-NOx catalysts for the comparison of the catalyst performance through reaction modeling. Studies in Surface Science and Catalysis, 2001, 133, 453-458.	1.5	2
53	Single Step Synthesis of Mesoporous Co-Pb/SBA-15 Catalysts. Studies in Surface Science and Catalysis, 2007, , 317-320.	1.5	2
54	The effect of H₂â€‰:â€‰N₂ ratio on the NH₃ synthesis rate and on process economics over the Co₃Mo₃N catalyst. Faraday Discussions, 2021, 229, 475-488.	3.2	2

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55	Use of seydiÅŸehir alumina as a support for CO oxidation catalysts. Chemical Engineering Communications, 2003, 190, 1073-1084.	2.6	1
56	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
57	The Effect of Addition of Pt on the Gas Phase Photocatalysis over TiO2. Nanostructure Science and Technology, 2010, , 479-501.	0.1	1
58	Artificial Photosynthesis from a Chemical Engineering Perspective. , 0, , .		1
59	Elucidating the role of adsorption during artificial photosynthesis: H2O and CO2 adsorption isotherms over TiO2 reveal thermal effects under UV illumination. Photosynthesis Research, 2022, 154, 353-367.	2.9	1
60	Dynamics: general discussion. Faraday Discussions, 2021, 229, 489-501.	3.2	0