Ali M Abdel-Mageed

List of Publications by Year
in descending order

38 papers	1,653 citations	331538 21 h-index	330025 37 g-index
38 all docs	38 docs citations	38 times ranked	2050 citing authors

#	Article	IF	Citations
1	Oxygen vacancies in Ru/TiO2 - drivers of low-temperature CO2 methanation assessed by multimodal operando spectroscopy. IScience, 2022, 25, 103886.	1.9	10
2	Structural, optical and photocatalytic properties of <scp>Sr</scp>â€doped and <scp>Ca</scp>â€doped <scp>BiFeO₃</scp> compounds prepared by <scp>Pechini</scp> method. Journal of Chemical Technology and Biotechnology, 2022, 97, 2970-2983.	1.6	2
3	Review of CO2 Reduction on Supported Metals (Alloys) and Single-Atom Catalysts (SACs) for the Use of Green Hydrogen in Power-to-Gas Concepts. Catalysts, 2022, 12, 16.	1.6	15
4	Controlling the selectivity of high-surface-area Ru/TiO2 catalysts in CO2 reduction - modifying the reaction properties by Si doping of the support. Applied Catalysis B: Environmental, 2022, 317, 121748.	10.8	7
5	Effects of SiO2-doping on high-surface-area Ru/TiO2 catalysts for the selective CO methanation. Applied Catalysis B: Environmental, 2021, 282, 119483.	10.8	27
6	Fundamental Aspects of Ceria Supported Au Catalysts Probed by In Situ/Operando Spectroscopy and TAP Reactor Studies. ChemPhysChem, 2021, 22, 1302-1315.	1.0	14
7	Controlling the O-Vacancy Formation and Performance of Au/ZnO Catalysts in CO₂Reduction to Methanol by the ZnO Particle Size. ACS Catalysis, 2021, 11, 9022-9033.	5.5	53
8	Performance of Au/ZnO catalysts in CO2 reduction to methanol: Varying the Au loading / Au particle size. Applied Catalysis A: General, 2021, 624, 118318.	2.2	15
9	Tiny Species with Big Impact: High Activity of Cu Single Atoms on CeO₂â€"TiO₂ Deciphered by <i>Operando</i> Spectroscopy. ACS Catalysis, 2021, 11, 10933-10949.	5.5	39
10	Electronic metal-support interactions and their promotional effect on CO2 methanation on Ru/ZrO2 catalysts. Journal of Catalysis, 2021, 400, 407-420.	3.1	44
11	Steering the selectivity in CO2 reduction on highly active Ru/TiO2 catalysts: Support particle size effects. Journal of Catalysis, 2021, 401, 160-173.	3.1	25
12	Influence of water vapor on the performance of Au/ZnO catalysts in methanol synthesis from CO2 and H2: A high-pressure kinetic and TAP reactor study. Applied Catalysis B: Environmental, 2021, 297, 120416.	10.8	12
13	CO₂Reduction to Methanol on Au/CeO₂Catalysts: Mechanistic Insights from Activation/Deactivation and SSITKA Measurements. ACS Catalysis, 2020, 10, 3580-3594.	5.5	47
14	Raising the CO_{<i>x</i>} Methanation Activity of a Ru/Î³â€Al₂O₃ Catalyst by Activated Modification of Metalâ€"Support Interactions. Angewandte Chemie - International Edition, 2020, 59, 22763-22770.	7.2	66
15	Aktivierte Modifikation der TrÃgerâ€Metallâ€Wechselwirkungen als SchlÃ¼ssel fÃ¼r hochaktive Ru/Î³â€Al 2 O 3 â€Katalysatoren fÃ¼r die CO x â€•Methanisierung. Angewandte Chemie, 2020, 132, 22951-22959.	1.6	0
16	Encapsulation of Ru nanoparticles: Modifying the reactivity toward CO and CO2 methanation on highly active Ru/TiO2 catalysts. Applied Catalysis B: Environmental, 2020, 270, 118846.	10.8	84
17	Influence of CO on the Activation, O-Vacancy Formation, and Performance of Au/ZnO Catalysts in CO₂ Hydrogenation to Methanol. Journal of Physical Chemistry Letters, 2019, 10, 3645-3653.	2.1	41
18	Synthesis, structural and morphological characterizations of nano-Ru-based perovskites/RGO composites. Scientific Reports, 2019, 9, 7948.	1.6	24

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19	Morphologieâ€optimierte hochaktive und â€stabile Ru/TiO₂â€Katalysatoren fÃ¼r die selektive COâ€Methanisierung. Angewandte Chemie, 2019, 131, 10842-10847.	1.6	7
20	Morphologyâ€Engineered Highly Active and Stable Ru/TiO₂ Catalysts for Selective CO Methanation. Angewandte Chemie - International Edition, 2019, 58, 10732-10736.	7.2	81
21	Ladungszustand von Auâ€Nanopartikeln wÃhrend der Methanolsynthese aus CO₂/H₂ an Au/ZnOâ€Katalysatoren: Einsichten aus Operando IRâ€Spektroskopie und Inâ€situ XPSâ€•und XASâ€Messungen. Angewandte Chemie, 2019, 131, 10431-10436.	1.6	7
22	Highly Active and Stable Single-Atom Cu Catalysts Supported by a Metalâ€“Organic Framework. Journal of the American Chemical Society, 2019, 141, 5201-5210.	6.6	361
23	Negative Charging of Au Nanoparticles during Methanol Synthesis from CO₂/H₂ on a Au/ZnO Catalyst: Insights from Operando IR and Nearâ€Ambientâ€Pressure XPS and XAS Measurements. Angewandte Chemie - International Edition, 2019, 58, 10325-10329.	7.2	67
24	Selective CO methanation on isostructural Ru nanocatalysts: The role of support effects. Journal of Catalysis, 2019, 373, 103-115.	3.1	40
25	Chemical and Electronic Changes of the CeO2 Support during CO Oxidation on Au/CeO2 Catalysts: Time-Resolved Operando XAS at the Ce LIII Edge. Catalysts, 2019, 9, 785.	1.6	12
26	Dynamic changes of Au/ZnO catalysts during methanol synthesis: A model study by temporal analysis of products (TAP) and Zn LIII near Edge X-Ray absorption spectroscopy. Catalysis Today, 2019, 336, 193-202.	2.2	12
27	Selective CO Methanation on Highly Active Ru/TiO₂ Catalysts: Identifying the Physical Origin of the Observed Activation/Deactivation and Loss in Selectivity. ACS Catalysis, 2018, 8, 5399-5414.	5.5	72
28	Influence of re-activation and ongoing CO oxidation reaction on the chemical and electronic properties of Au on a Au/CeO 2 catalyst: A XANES study at the Au L III edge. Journal of Electron Spectroscopy and Related Phenomena, 2017, 220, 86-90.	0.8	6
29	Active Au Species During the Low-Temperature Water Gas Shift Reaction on Au/CeO₂: A Time-Resolved Operando XAS and DRIFTS Study. ACS Catalysis, 2017, 7, 6471-6484.	5.5	74
30	Deactivation of Au/CeO2 catalysts during CO oxidation: Influence of pretreatment and reaction conditions. Journal of Catalysis, 2016, 341, 160-179.	3.1	67
31	Geometric and electronic structure of Au on Au/CeO₂catalysts during the CO oxidation: Deactivation by reaction induced particle growth. Journal of Physics: Conference Series, 2016, 712, 012044.	0.3	7
32	Water assisted dispersion of Ru nanoparticles: The impact of water on the activity and selectivity of supported Ru catalysts during the selective methanation of CO in CO2-rich reformate. Journal of Catalysis, 2016, 335, 79-94.	3.1	21
33	Improved Performance of Ru/Î³â€Al₂O₃ Catalysts in the Selective Methanation of CO in CO₂â€Rich Reformate Gases upon Transient Exposure to Waterâ€Containing Reaction Gas. ChemSusChem, 2015, 8, 3869-3881.	3.6	14
34	High Selectivity of Supported Ru Catalysts in the Selective CO Methanationâ€”Water Makes the Difference. Journal of the American Chemical Society, 2015, 137, 8672-8675.	6.6	56
35	Selective CO Methanation on Ru/TiO₂ Catalysts: Role and Influence of Metalâ€“Support Interactions. ACS Catalysis, 2015, 5, 6753-6763.	5.5	113
36	Selective CO methanation in CO2-rich H2 atmospheres over a Ru/zeolite catalyst: The influence of catalyst calcination. Journal of Catalysis, 2013, 298, 148-160.	3.1	61

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37	Computational investigation and synthesis of a solâ€"gel imprinted material for sensing application of some biologically active molecules. Analytica Chimica Acta, 2010, 667, 63-70.	2.6	24
38	Smart electrochemical sensor for some neurotransmitters using imprinted solâ€"gel films. Talanta, 2009, 80, 511-518.	2.9	26