

George Tsilomelekis

List of Publications by Year in descending order

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34
papers

1,517
citations

430754

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular structure, morphology and growth mechanisms and rates of 5-hydroxymethyl furfural (HMF) derived humins. <i>Green Chemistry</i> , 2016, 18, 1983-1993.	4.6	276
2	Origin of 5-Hydroxymethylfurfural Stability in Water/Dimethyl Sulfoxide Mixtures. <i>ChemSusChem</i> , 2014, 7, 117-126.	3.6	150
3	Mechanism of Brønsted Acid-Catalyzed Glucose Dehydration. <i>ChemSusChem</i> , 2015, 8, 1334-1341.	3.6	135
4	Structural analysis of humins formed in the Brønsted acid catalyzed dehydration of fructose. <i>Green Chemistry</i> , 2018, 20, 997-1006.	4.6	123
5	Polyethylene Hydrogenolysis at Mild Conditions over Ruthenium on Tungstated Zirconia. <i>Jacs Au</i> , 2021, 1, 1422-1434.	3.6	95
6	Vanadia-based SCR catalysts supported on tungstated and sulfated zirconia: Influence of doping with potassium. <i>Journal of Catalysis</i> , 2007, 251, 459-473.	3.1	91
7	Support effects on structure and activity of molybdenum oxide catalysts for the oxidative dehydrogenation of ethane. <i>Catalysis Today</i> , 2007, 127, 139-147.	2.2	65
8	Removal of benzothiophene and dibenzothiophene from hydrocarbon fuels using CuCe mesoporous Y zeolites in the presence of aromatics. <i>Applied Catalysis B: Environmental</i> , 2018, 234, 130-142.	10.8	64
9	Cellulose Hydrolysis in Acidified LiBr Molten Salt Hydrate Media. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 5226-5236.	1.8	63
10	On the configuration, molecular structure and vibrational properties of MoO _x sites on alumina, zirconia, titania and silica. <i>Catalysis Science and Technology</i> , 2013, 3, 1869.	2.1	59
11	In Situ Raman and FTIR Spectroscopy of Molybdenum(VI) Oxide Supported on Titania Combined with ¹⁸ O/ ¹⁶ O Exchange: Molecular Structure, Vibrational Properties, and Vibrational Isotope Effects. <i>Journal of Physical Chemistry C</i> , 2011, 115, 2146-2154.	1.5	42
12	Catalytic performance and stability of Fe-doped CeO ₂ in propane oxidative dehydrogenation using carbon dioxide as an oxidant. <i>Catalysis Science and Technology</i> , 2020, 10, 4362-4372.	2.1	35
13	An operando Raman study of molecular structure and reactivity of molybdenum(vi) oxide supported on anatase for the oxidative dehydrogenation of ethane. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 2216-2228.	1.3	32
14	Changes in Polymorph Composition in P25-TiO ₂ during Pretreatment Analyzed by Differential Diffuse Reflectance Spectral Analysis. <i>Journal of Physical Chemistry C</i> , 2018, 122, 5093-5104.	1.5	31
15	Colloidal plasmonic nanostar antennas with wide range resonance tunability. <i>Nanoscale</i> , 2019, 11, 18662-18671.	2.8	31
16	Recent advances in integrated process analytical techniques, modeling, and control strategies to enable continuous biomanufacturing of monoclonal antibodies. <i>Journal of Chemical Technology and Biotechnology</i> , 2022, 97, 2317-2335.	1.6	25
17	Adsorptive Desulfurization of 4,6-Dimethyldibenzothiophene on Bimetallic Mesoporous Y Zeolites: Effects of Cu and Ce Composition and Configuration. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 18301-18312.	1.8	22
18	Structural and vibrational properties of molybdena catalysts supported on alumina and zirconia studied by in situ Raman and FTIR spectroscopies combined with ¹⁸ O/ ¹⁶ O isotopic substitution. <i>Catalysis Today</i> , 2010, 158, 146-155.	2.2	18

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19	Temperature-Dependent Evolution of the Molecular Configuration of Oxo-Tungsten(VI) Species Deposited on the Surface of Titania. <i>Journal of Physical Chemistry C</i> , 2014, 118, 11319-11332.	1.5	18
20	Molybdena deposited on titania by equilibrium deposition filtration: structural evolution of oxo- μ -molybdenum(ν) sites with temperature. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 23980-23989.	1.3	17
21	Effect of metal chlorides on glucose mutarotation and possible implications on humin formation. <i>Reaction Chemistry and Engineering</i> , 2019, 4, 273-277.	1.9	15
22	Molybdenum(VI) Oxosulfato Complexes in $\text{MoO}_3 \cdot \text{K}_2\text{S}_2\text{O}_7 \cdot \text{K}_2\text{SO}_4$ Molten Mixtures: Stoichiometry, Vibrational Properties, and Molecular Structures. <i>Journal of Physical Chemistry A</i> , 2012, 116, 8861-8872.	1.1	14
23	Characterization of Sulfated SnO_2 - ZrO_2 Catalysts and Their Catalytic Performance on the Tert-Butylation of Phenol. <i>Catalysts</i> , 2020, 10, 726.	1.6	11
24	CO_2 -assisted ethane oxidative dehydrogenation over MoO_x catalysts supported on reducible $\text{CeO}_2 \cdot \text{TiO}_2$. <i>Catalysis Science and Technology</i> , 2021, 11, 5791-5801.	2.1	11
25	Solvent-Induced Frequency Shifts of 5-Hydroxymethylfurfural Deduced via Infrared Spectroscopy and <i>ab Initio</i> Calculations. <i>Journal of Physical Chemistry A</i> , 2014, 118, 12149-12160.	1.1	9
26	Accessible and Interactive Learning of Spectroscopic Parameterization through Computer-Aided Training. <i>Journal of Chemical Education</i> , 2020, 97, 4527-4532.	1.1	8
27	FTIR studies on plasticization of silicate glass with ionic liquids (conversion to silicate polymers). <i>Journal of Non-Crystalline Solids</i> , 2021, 561, 120757.	1.5	8
28	Permeation dynamics of dimethyl methylphosphonate through polyelectrolyte composite membranes by in-situ Raman spectroscopy. <i>Journal of Membrane Science</i> , 2020, 595, 117462.	4.1	7
29	Temperature μ dependent evolution of molecular configurations of oxomolybdenum species on $\text{MoO}_3/\text{TiO}_2$ catalysts monitored by in situ Raman spectroscopy. <i>Studies in Surface Science and Catalysis</i> , 2010, 175, 613-616.	1.5	6
30	Molecular structure and reactivity of titania-supported transition metal oxide catalysts synthesized by equilibrium deposition filtration for the oxidative dehydrogenation of ethane. <i>Comptes Rendus Chimie</i> , 2016, 19, 1226-1236.	0.2	5
31	Molten Salt Hydrates in the Synthesis of TiO_2 Flakes. <i>ACS Omega</i> , 2019, 4, 21302-21310.	1.6	4
32	Mechanism of Brønsted Acid-Catalyzed Glucose Dehydration. <i>ChemSusChem</i> , 2015, 8, 1291-1291.	3.6	3
33	Molten and glassy tellurium(IV) oxosulfato complexes in the $\text{TeO}_2 \cdot \text{K}_2\text{S}_2\text{O}_7$ system studied by Raman spectroscopy: Stoichiometry, vibrational properties and molecular structure. <i>Vibrational Spectroscopy</i> , 2018, 97, 85-90.	1.2	2
34	Toward the coupling of microbial biosynthesis and catalysis for the production of alkylated phenolic compounds. <i>AIChE Journal</i> , 2020, 66, e16547.	1.8	0