

# George Tsilomelekis

## List of Publications by Year in descending order

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34  
papers

1,517  
citations

430754

18  
h-index

360920

35  
g-index

39  
all docs

39  
docs citations

39  
times ranked

2021  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Polyethylene Hydrogenolysis at Mild Conditions over Ruthenium on Tungstated Zirconia. <i>Jacs Au</i> , 2021, 1, 1422-1434.	3.6	95
4	CO <sub>2</sub> -assisted ethane oxidative dehydrogenation over MoO <sub>x</sub> catalysts supported on reducible CeO <sub>2</sub> –TiO <sub>2</sub> . <i>Catalysis Science and Technology</i> , 2021, 11, 5791-5801.	2.1	11
5	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
6	Accessible and Interactive Learning of Spectroscopic Parameterization through Computer-Aided Training. <i>Journal of Chemical Education</i> , 2020, 97, 4527-4532.	1.1	8
7	Characterization of Sulfated SnO <sub>2</sub> -ZrO <sub>2</sub> Catalysts and Their Catalytic Performance on the Tert-Butylation of Phenol. <i>Catalysts</i> , 2020, 10, 726.	1.6	11
8	Catalytic performance and stability of Fe-doped CeO <sub>2</sub> in propane oxidative dehydrogenation using carbon dioxide as an oxidant. <i>Catalysis Science and Technology</i> , 2020, 10, 4362-4372.	2.1	35
9	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
10	Adsorptive Desulfurization of 4,6-Dimethyldibenzothiophene on Bimetallic Mesoporous Y Zeolites: Effects of Cu and Ce Composition and Configuration. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 18301-18312.	1.8	22
11	Colloidal plasmonic nanostar antennas with wide range resonance tunability. <i>Nanoscale</i> , 2019, 11, 18662-18671.	2.8	31
12	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
13	Molten Salt Hydrates in the Synthesis of TiO <sub>2</sub> Flakes. <i>ACS Omega</i> , 2019, 4, 21302-21310.	1.6	4
14	Changes in Polymorph Composition in P25-TiO <sub>2</sub> during Pretreatment Analyzed by Differential Diffuse Reflectance Spectral Analysis. <i>Journal of Physical Chemistry C</i> , 2018, 122, 5093-5104.	1.5	31
15	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
16	Structural analysis of humins formed in the Brønsted acid catalyzed dehydration of fructose. <i>Green Chemistry</i> , 2018, 20, 997-1006.	4.6	123
17	Molten and glassy tellurium(IV) oxosulfato complexes in the TeO <sub>2</sub> –K <sub>2</sub> S <sub>2</sub> O <sub>7</sub> system studied by Raman spectroscopy: Stoichiometry, vibrational properties and molecular structure. <i>Vibrational Spectroscopy</i> , 2018, 97, 85-90.	1.2	2
18	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

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19	Molybdena deposited on titania by equilibrium deposition filtration: structural evolution of oxo- $\mu$ -molybdenum( $\nu$ ) sites with temperature. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 23980-23989.	1.3	17
20	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
21	Mechanism of Brønsted Acid-Catalyzed Glucose Dehydration. <i>ChemSusChem</i> , 2015, 8, 1334-1341.	3.6	135
22	Cellulose Hydrolysis in Acidified LiBr Molten Salt Hydrate Media. <i>Industrial &amp; Engineering Chemistry Research</i> , 2015, 54, 5226-5236.	1.8	63
23	Mechanism of Brønsted Acid-Catalyzed Glucose Dehydration. <i>ChemSusChem</i> , 2015, 8, 1291-1291.	3.6	3
24	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
25	Origin of 5-Hydroxymethylfurfural Stability in Water/Dimethyl Sulfoxide Mixtures. <i>ChemSusChem</i> , 2014, 7, 117-126.	3.6	150
26	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
27	On the configuration, molecular structure and vibrational properties of MoO <sub>x</sub> sites on alumina, zirconia, titania and silica. <i>Catalysis Science and Technology</i> , 2013, 3, 1869.	2.1	59
28	Molybdenum(VI) Oxosulfato Complexes in MoO <sub>3</sub> -K <sub>2</sub> S <sub>2</sub> O <sub>7</sub> -K <sub>2</sub> SO <sub>4</sub> Molten Mixtures: Stoichiometry, Vibrational Properties, and Molecular Structures. <i>Journal of Physical Chemistry A</i> , 2012, 116, 8861-8872.	1.1	14
29	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
30	In Situ Raman and FTIR Spectroscopy of Molybdenum(VI) Oxide Supported on Titania Combined with <sup>18</sup> O/ <sup>16</sup> O Exchange: Molecular Structure, Vibrational Properties, and Vibrational Isotope Effects. <i>Journal of Physical Chemistry C</i> , 2011, 115, 2146-2154.	1.5	42
31	Structural and vibrational properties of molybdena catalysts supported on alumina and zirconia studied by in situ Raman and FTIR spectroscopies combined with <sup>18</sup> O/ <sup>16</sup> O isotopic substitution. <i>Catalysis Today</i> , 2010, 158, 146-155.	2.2	18
32	Temperature dependent evolution of molecular configurations of oxomolybdenum species on MoO <sub>3</sub> /TiO <sub>2</sub> catalysts monitored by in situ Raman spectroscopy. <i>Studies in Surface Science and Catalysis</i> , 2010, 175, 613-616.	1.5	6
33	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
34	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