

Issis C Romero-Ibarra

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

1,180
citations

361296

20
h-index

377752

34
g-index

40
all docs

40
docs citations

40
times ranked

1362
citing authors

#	ARTICLE	IF	CITATIONS
1	CO ₂ capture properties of lithium silicates with different ratios of Li ₂ O/SiO ₂ : an ab initio thermodynamic and experimental approach. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 13538.	1.3	100
2	Microstructural and CO ₂ chemisorption analyses of Li ₄ SiO ₄ : Effect of surface modification by the ball milling process. <i>Thermochimica Acta</i> , 2013, 567, 118-124.	1.2	93
3	Mechanical and rheological studies on polyethylene terephthalate-montmorillonite nanocomposites. <i>Polymer Engineering and Science</i> , 2004, 44, 1094-1102.	1.5	86
4	Biodiesel production from soybean and Jatropha oils using cesium impregnated sodium zirconate as a heterogeneous base catalyst. <i>Renewable Energy</i> , 2016, 93, 323-331.	4.3	74
5	Analysis of the CO ₂ chemisorption reaction mechanism in lithium oxosilicate (Li ₈ SiO ₆): a new option for high-temperature CO ₂ capture. <i>Journal of Materials Chemistry A</i> , 2013, 1, 3919.	5.2	69
6	Sodium zirconate (Na ₂ ZrO ₃) as a catalyst in a soybean oil transesterification reaction for biodiesel production. <i>Fuel Processing Technology</i> , 2014, 120, 34-39.	3.7	64
7	In-situ transesterification of Jatropha curcas L. seeds using homogeneous and heterogeneous basic catalysts. <i>Fuel</i> , 2019, 235, 277-287.	3.4	62
8	Li ₄ (SiAl ₂ O ₄) ₂ Solid Solution Mechano-synthesis and Kinetic Analysis of the CO ₂ Chemisorption Process. <i>Journal of Physical Chemistry C</i> , 2013, 117, 6303-6311.	1.5	52
9	Efficient cephalixin degradation using active chlorine produced on ruthenium and iridium oxide anodes: Role of bath composition, analysis of degradation pathways and degradation extent. <i>Science of the Total Environment</i> , 2019, 648, 377-387.	3.9	47
10	Thermodynamic and Kinetic Analyses of the CO ₂ Chemisorption Mechanism on Na ₂ TiO ₃ : Experimental and Theoretical Evidences. <i>Journal of Physical Chemistry C</i> , 2014, 118, 19822-19832.	1.5	37
11	The effect of different operational parameters on the electrooxidation of indigo carmine on Ti/IrO ₂ -SnO ₂ -Sb ₂ O ₃ . <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 3010-3017.	3.3	35
12	Hierarchically Nanostructured Barium Sulfate Fibers. <i>Langmuir</i> , 2010, 26, 6954-6959.	1.6	32
13	In situ synthesis of Au-decorated BiOCl/BiVO ₄ hybrid ternary system with enhanced visible-light photocatalytic behavior. <i>Applied Surface Science</i> , 2019, 487, 743-754.	3.1	32
14	Structural and CO ₂ Chemisorption Analyses on Na ₂ (ZrAl ₂ O ₃) ₂ Solid Solutions. <i>Journal of Physical Chemistry C</i> , 2013, 117, 16483-16491.	1.5	27
15	CO ₂ Adsorption at Elevated Pressure and Temperature on Mg-Al Layered Double Hydroxide. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 8087-8094.	1.8	27
16	Unraveling the structural and composition properties associated with the enhancement of the photocatalytic activity under visible light of Ag ₂ O/BiFeO ₃ -Ag synthesized by microwave-assisted hydrothermal method. <i>Applied Surface Science</i> , 2020, 521, 146357.	3.1	27
17	In search of the active chlorine species on Ti/ZrO ₂ -RuO ₂ -Sb ₂ O ₃ anodes using DEMS and XPS. <i>Electrochimica Acta</i> , 2018, 275, 265-274.	2.6	26
18	A novel green one-pot synthesis of biodiesel from Ricinus communis seeds by basic heterogeneous catalysis. <i>Journal of Cleaner Production</i> , 2018, 196, 340-349.	4.6	24

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19	Key processing of porous and fibrous LaCoO ₃ nanostructures for successful CO and propane sensing. <i>Ceramics International</i> , 2018, 44, 15402-15410.	2.3	23
20	Synthesis of sodium zincsilicate (Na ₂ ZnSiO ₄) and heterogeneous catalysis towards biodiesel production via Box-Behnken design. <i>Fuel</i> , 2020, 280, 118668.	3.4	22
21	Influence of the K ⁺ , Na ⁺ and K ⁺ Na ⁺ carbonate additions during the CO ₂ chemisorption on lithium oxosilicate (Li ₈ SiO ₆)., 2014, 4, 145-154.		20
22	Hierarchical Na-doped cubic ZrO ₂ synthesis by a simple hydrothermal route and its application in biodiesel production. <i>Journal of Solid State Chemistry</i> , 2014, 218, 213-220.	1.4	19
23	Controlling Li ₂ CuO ₂ single phase transition to preserve cathode capacity and cyclability in Li-ion batteries. <i>Solid State Ionics</i> , 2017, 303, 89-96.	1.3	19
24	Influence of the morphology of barium sulfate nanofibers and nanospheres on the physical properties of polyurethane nanocomposites. <i>European Polymer Journal</i> , 2012, 48, 670-676.	2.6	18
25	Thermokinetic and microstructural analyses of the CO ₂ chemisorption on K ₂ CO ₃ •Na ₂ ZrO ₃ . <i>Journal of CO₂ Utilization</i> , 2013, 3-4, 14-20.	3.3	17
26	Li ₂ SiO ₃ fast microwave-assisted hydrothermal synthesis and evaluation of its water vapor and CO ₂ absorption properties. <i>Particuology</i> , 2016, 24, 129-137.	2.0	16
27	Thermal properties of centrifuged oils measured by alternative photothermal techniques. <i>Thermochimica Acta</i> , 2017, 657, 66-71.	1.2	14
28	Influence of X-ray opaque BaSO ₄ nanoparticles on the mechanical, thermal and rheological properties of polyoxymethylene nanocomposites. <i>Journal of Polymer Engineering</i> , 2012, 32, 319-326.	0.6	12
29	Nanocomposite polymer electrolytes based on poly(poly(ethylene glycol)methacrylate), MMT or ZSM-5 formulated with LiTFSI and PYR ₁₁ TFSI for Li-ion batteries. <i>RSC Advances</i> , 2016, 6, 7249-7259.	1.7	11
30	First assessment of Li ₂ O•Bi ₂ O ₃ ceramic oxides for high temperature carbon dioxide capture. <i>Journal of Energy Chemistry</i> , 2016, 25, 754-760.	7.1	10
31	Pulse-Plating Electrodeposition of Metallic Bi in an Organic-Free Aqueous Electrolyte and Its Conversion into BiVO ₄ To Improve Photoelectrochemical Activity toward Pollutant Degradation under Visible Light. <i>Journal of Physical Chemistry C</i> , 2020, 124, 1421-1428.	1.5	10
32	Determination of active sites on Na ₂ SiO ₃ and Li ₂ SiO ₃ catalysts for methanol dissociation and methoxide stabilization concerning biodiesel production. <i>Fuel</i> , 2021, 298, 120840.	3.4	9
33	Molecular interactions arising in polyethylene•bentonite nanocomposites. <i>Journal of Applied Polymer Science</i> , 2019, 136, 46920.	1.3	8
34	The Influence of Ni(II) and Co(II) Adsorptions in the Anomalous Behavior of Co-Ni Alloys: Density Functional Theory and Experimental Studies. <i>ChemistrySelect</i> , 2017, 2, 1826-1834.	0.7	7
35	Microwave-Assisted Solvothermal One-Pot Synthesis of RuO ₂ Nanoparticles: First Insights of Its Activity Towards Oxygen and Chlorine Evolution Reactions. <i>ChemistrySelect</i> , 2018, 3, 12937-12945.	0.7	7
36	In situ reactivation of spent NiMoP/Al ₂ O ₃ catalyst for hydrodesulfurization of straight-run gas oil. <i>Catalysis Today</i> , 2019, 329, 44-52.	2.2	6

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37	Experimental and theoretical analysis revealing the underlying chemistry accounting for the heterogeneous transesterification reaction in Na ₂ SiO ₃ and Li ₂ SiO ₃ catalysts. <i>Renewable Energy</i> , 2022, 184, 845-856.	4.3	6
38	CO ₂ adsorption at high pressures in MCM-41 and derived alkali-containing samples: the role of the textural properties and chemical affinity. <i>Journal of Porous Materials</i> , 2016, 23, 1155-1162.	1.3	4
39	A Facile Route to Synthesize a TiNT-RuO ₂ Electro-catalyst for Electro-Generated Active Chlorine Production. <i>Journal of the Electrochemical Society</i> , 2019, 166, H783-H790.	1.3	4
40	Degradation of cefadroxil by photoelectrocatalytic ozonation under visible-light irradiation and single processes. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2022, 431, 113995.	2.0	4