ngel Berenguer-Murcia

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

102 papers

9,050 citations

37 h-index 95 g-index

111 ext. papers

10,450 ext. citations

7.6 avg, IF

6.45 L-index

#	Paper	IF	Citations
102	Modifying enzyme activity and selectivity by immobilization. <i>Chemical Society Reviews</i> , 2013 , 42, 6290-3	05 8.5	1298
101	Potential of Different Enzyme Immobilization Strategies to Improve Enzyme Performance. <i>Advanced Synthesis and Catalysis</i> , 2011 , 353, 2885-2904	5.6	1170
100	Selective oxidation with dioxygen by gold nanoparticle catalysts derived from 55-atom clusters. Nature, 2008, 454, 981-3	50.4	1124
99	Glutaraldehyde in bio-catalysts design: a useful crosslinker and a versatile tool in enzyme immobilization. <i>RSC Advances</i> , 2014 , 4, 1583-1600	3.7	536
98	Strategies for the one-step immobilization-purification of enzymes as industrial biocatalysts. <i>Biotechnology Advances</i> , 2015 , 33, 435-56	17.8	463
97	Importance of the Support Properties for Immobilization or Purification of Enzymes. <i>ChemCatChem</i> , 2015 , 7, 2413-2432	5.2	387
96	Heterofunctional supports in enzyme immobilization: from traditional immobilization protocols to opportunities in tuning enzyme properties. <i>Biomacromolecules</i> , 2013 , 14, 2433-62	6.9	358
95	Coupling Chemical Modification and Immobilization to Improve the Catalytic Performance of Enzymes. <i>Advanced Synthesis and Catalysis</i> , 2011 , 353, 2216-2238	5.6	268
94	Immobilization of lipases on hydrophobic supports: immobilization mechanism, advantages, problems, and solutions. <i>Biotechnology Advances</i> , 2019 , 37, 746-770	17.8	254
93	Novozym 435: the perfect ipase immobilized biocatalyst?. <i>Catalysis Science and Technology</i> , 2019 , 9, 2380-2420	5.5	241
92	Polyethylenimine: a very useful ionic polymer in the design of immobilized enzyme biocatalysts. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 7461-7490	7.3	162
91	Chemical Modification in the Design of Immobilized Enzyme Biocatalysts: Drawbacks and Opportunities. <i>Chemical Record</i> , 2016 , 16, 1436-55	6.6	132
90	Biotechnological Applications of Proteases in Food Technology. <i>Comprehensive Reviews in Food Science and Food Safety</i> , 2018 , 17, 412-436	16.4	118
89	Semihydrogenation of Phenylacetylene Catalyzed by Palladium Nanoparticles Supported on Carbon Materials. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 3827-3834	3.8	113
88	Electrochemical deposition of platinum nanoparticles on different carbon supports and conducting polymers. <i>Journal of Applied Electrochemistry</i> , 2008 , 38, 259-268	2.6	105
87	Hydrogen Peroxide in Biocatalysis. A Dangerous Liaison. Current Organic Chemistry, 2012, 16, 2652-2677	21.7	103
86	Semihydrogenation of phenylacetylene catalyzed by metallic nanoparticles containing noble metals. <i>Journal of Catalysis</i> , 2006 , 243, 74-81	7.3	103

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85	Inorganic materials as supports for palladium nanoparticles: Application in the semi-hydrogenation of phenylacetylene. <i>Journal of Catalysis</i> , 2008 , 257, 87-95	7.3	93	
84	Amination of enzymes to improve biocatalyst performance: coupling genetic modification and physicochemical tools. <i>RSC Advances</i> , 2014 , 4, 38350-38374	3.7	91	
83	Beyond the H2/CO2 upper bound: one-step crystallization and separation of nano-sized ZIF-11 by centrifugation and its application in mixed matrix membranes. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 6549-6556	13	85	
82	Capillary microreactors wall-coated with mesoporous titania thin film catalyst supports. <i>Lab on A Chip</i> , 2009 , 9, 503-6	7.2	84	
81	Selective Hydrogenation of 2-Methyl-3-butyne-2-ol in a Wall-Coated Capillary Microreactor with a Pd25Zn75/TiO2 Catalyst. <i>Organic Process Research and Development</i> , 2009 , 13, 991-998	3.9	78	
80	Highly efficient catalysts for the hydrogenation of nitro-substituted aromatics. <i>Chemical Communications</i> , 2005 , 2026-8	5.8	73	
79	Enzyme co-immobilization: Always the biocatalyst designers' choiceBr not?. <i>Biotechnology Advances</i> , 2021 , 51, 107584	17.8	63	
78	New Trends in the Recycling of NAD(P)H for the Design of Sustainable Asymmetric Reductions Catalyzed by Dehydrogenases. <i>Current Organic Chemistry</i> , 2010 , 14, 1000-1021	1.7	60	
77	Clay-supported graphene materials: application to hydrogen storage. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 18635-41	3.6	53	
76	Immobilization of Proteins in Poly-Styrene-Divinylbenzene Matrices: Functional Properties and Applications. <i>Current Organic Chemistry</i> , 2015 , 19, 1707-1718	1.7	51	
75	Stabilization of enzymes via immobilization: Multipoint covalent attachment and other stabilization strategies. <i>Biotechnology Advances</i> , 2021 , 52, 107821	17.8	50	
74	Key factors improving oxygen reduction reaction activity in cobalt nanoparticles modified carbon nanotubes. <i>Applied Catalysis B: Environmental</i> , 2017 , 217, 303-312	21.8	46	
73	Evolution of the PVP-Pd Surface Interaction in Nanoparticles through the Case Study of Formic Acid Decomposition. <i>Langmuir</i> , 2016 , 32, 12110-12118	4	46	
72	Preferential oxidation of CO catalyzed by supported polymer-protected palladium-based nanoparticles. <i>Applied Catalysis B: Environmental</i> , 2010 , 98, 161-170	21.8	43	
71	Probe Molecule Kinetic Studies of Adsorption on MCM-41. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 1012-1020	3.4	43	
70	Palladium and Bimetallic Palladium Nickel Nanoparticles Supported on Multiwalled Carbon Nanotubes: Application to Carbon? Carbon Bond-Forming Reactions in Water. <i>ChemCatChem</i> , 2015 , 7, 1841-1847	5.2	42	
69	Use of Alcalase in the production of bioactive peptides: A review. <i>International Journal of Biological Macromolecules</i> , 2020 , 165, 2143-2196	7.9	42	
68	Liquid lipase preparations designed for industrial production of biodiesel. Is it really an optimal solution?. <i>Renewable Energy</i> , 2021 , 164, 1566-1587	8.1	42	

67	Biotechnological relevance of the lipase A from Candida antarctica. <i>Catalysis Today</i> , 2021 , 362, 141-154	5.3	39
66	Single wall carbon nanotubes loaded with Pd and NiPd nanoparticles for H2 sensing at room temperature. <i>Carbon</i> , 2014 , 66, 599-611	10.4	38
65	One Pot Use of Combilipases for Full Modification of Oils and Fats: Multifunctional and Heterogeneous Substrates. <i>Catalysts</i> , 2020 , 10, 605	4	35
64	Control of the thickness of mesoporous titania films for application in multiphase catalytic microreactors. <i>Journal of Catalysis</i> , 2010 , 271, 161-169	7.3	35
63	Hydrogen Storage in Porous Materials: Status, Milestones, and Challenges. <i>Chemical Record</i> , 2018 , 18, 900-912	6.6	34
62	Gold supported on mesoporous titania thin films for application in microstructured reactors in low-temperature water-gas shift reaction. <i>Catalysis Today</i> , 2008 , 138, 210-215	5.3	32
61	Au-IDA microelectrodes modified with Au-doped graphene oxide for the simultaneous determination of uric acid and ascorbic acid in urine samples. <i>Electrochimica Acta</i> , 2017 , 227, 275-284	6.7	30
60	Effect of the aging time of PVP coated palladium nanoparticles colloidal suspensions on their catalytic activity in the preferential oxidation of CO. <i>Catalysis Today</i> , 2012 , 187, 2-9	5.3	29
59	Photocatalytic oxidation of propene at low concentration. <i>Applied Catalysis B: Environmental</i> , 2007 , 71, 298-309	21.8	28
58	Genipin as An Emergent Tool in the Design of Biocatalysts: Mechanism of Reaction and Applications. <i>Catalysts</i> , 2019 , 9, 1035	4	27
57	Capillary microreactors based on hierarchical SiO2 monoliths incorporating noble metal nanoparticles for the Preferential Oxidation of CO. <i>Chemical Engineering Journal</i> , 2015 , 275, 71-78	14.7	26
56	Pd/zeolite-based catalysts for the preferential CO oxidation reaction: ion-exchange, Si/Al and structure effect. <i>Catalysis Science and Technology</i> , 2016 , 6, 2623-2632	5.5	26
55	One step-synthesis of highly dispersed iron species into silica for propylene epoxidation with dioxygen. <i>Journal of Catalysis</i> , 2016 , 338, 154-167	7.3	25
54	Catalytic growth of carbon nanotubes on stainless steel: Characterization and frictional properties. <i>Diamond and Related Materials</i> , 2008 , 17, 1853-1857	3.5	25
53	Lecitase ultra: A phospholipase with great potential in biocatalysis. <i>Molecular Catalysis</i> , 2019 , 473, 1104	10553	24
52	Ficin: A protease extract with relevance in biotechnology and biocatalysis. <i>International Journal of Biological Macromolecules</i> , 2020 , 162, 394-404	7.9	24
51	Total oxidation of naphthalene using palladium nanoparticles supported on BETA, ZSM-5, SAPO-5 and alumina powders. <i>Applied Catalysis B: Environmental</i> , 2013 , 129, 98-105	21.8	24
50	Carbon Nanotubes Modified With Au for Electrochemical Detection of Prostate Specific Antigen: Effect of Au Nanoparticle Size Distribution. <i>Frontiers in Chemistry</i> , 2019 , 7, 147	5	23

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49	Preparation of thin silicalite-1 layers on carbon materials by electrochemical methods. <i>Microporous and Mesoporous Materials</i> , 2003 , 66, 331-340	5.3	23	
48	Enzyme production of D-gluconic acid and glucose oxidase: successful tales of cascade reactions. <i>Catalysis Science and Technology</i> , 2020 , 10, 5740-5771	5.5	23	
47	Dextran Aldehyde in Biocatalysis: More Than a Mere Immobilization System. <i>Catalysts</i> , 2019 , 9, 622	4	22	
46	Nanoarchitectures based on layered titanosilicates supported on glass fibers: application to hydrogen storage. <i>Langmuir</i> , 2013 , 29, 7449-55	4	22	
45	Graphene-Clay Based Nanomaterials for Clean Energy Storage. <i>Science of Advanced Materials</i> , 2014 , 6, 151-158	2.3	21	
44	Selectivity control in hydrogenation reactions by nanoconfinement of polymetallic nanoparticles in mesoporous thin films. <i>Applied Catalysis A: General</i> , 2009 , 368, 87-96	5.1	19	
43	About the exclusive mesoporous character of MCM-41. <i>Studies in Surface Science and Catalysis</i> , 2002 , 144, 83-90	1.8	18	
42	Binderless thin films of zeolite-templated carbon electrodes useful for electrochemical microcapacitors with ultrahigh rate performance. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 10331	-4 ^{3.6}	17	
41	Silicalite-1 membranes supported on porous carbon discs. <i>Microporous and Mesoporous Materials</i> , 2003 , 59, 147-159	5.3	17	
40	Structural and textural features of TiO2/SAPO-34 nanocomposite prepared by the solgel method. <i>Research on Chemical Intermediates</i> , 2016 , 42, 8039-8053	2.8	16	
39	Preparation of silicalite-1 layers on Pt-coated carbon materials: a possible electrochemical approach towards membrane reactors. <i>Microporous and Mesoporous Materials</i> , 2005 , 78, 159-167	5.3	15	
38	Synthesis of TiOlwith Hierarchical Porosity for the Photooxidation of Propene. <i>Molecules</i> , 2017 , 22,	4.8	14	
37	K- and Ca-promoted ferrosilicates for the gas-phase epoxidation of propylene with O 2. <i>Applied Catalysis A: General</i> , 2017 , 538, 139-147	5.1	13	
36	Facile encapsulation of P25 (TiO2) in spherical silica with hierarchical porosity with enhanced photocatalytic properties for gas-phase propene oxidation. <i>Applied Catalysis A: General</i> , 2018 , 564, 123	3-1532	13	
35	Nanoparticulate PdZnpathways towards the synthetic control of nanosurface properties. <i>Nanotechnology</i> , 2011 , 22, 205701	3.4	13	
34	Zeolite LTA/carbon membranes for air separation. <i>Microporous and Mesoporous Materials</i> , 2008 , 115, 51-60	5.3	13	
33	Photocatalytically-driven H2 production over Cu/TiO2 catalysts decorated with multi-walled carbon nanotubes. <i>Catalysis Today</i> , 2021 , 364, 182-189	5.3	13	
32	Magnetic zeolites: novel nanoreactors through radiofrequency heating. <i>Chemical Communications</i> , 2017 , 53, 4262-4265	5.8	12	

31	Enhanced ammonia-borane decomposition by synergistic catalysis using CoPd nanoparticles supported on titano-silicates. <i>RSC Advances</i> , 2016 , 6, 91768-91772	3.7	11
30	Total oxidation of naphthalene at low temperatures using palladium nanoparticles supported on inorganic oxide-coated cordierite honeycomb monoliths. <i>Catalysis Science and Technology</i> , 2013 , 3, 270)8 ^{5.5}	11
29	Synthesis of robust hierarchical silica monoliths by surface-mediated solution/precipitation reactions over different scales: designing capillary microreactors for environmental applications. <i>ACS Applied Materials & Districtions</i> (22506-18)	9.5	11
28	Hydrogen purification for PEM fuel cells using membranes prepared by ion-exchange of Na-LTA/carbon membranes. <i>Journal of Membrane Science</i> , 2010 , 351, 123-130	9.6	11
27	Bioactive peptides from fisheries residues: A review of use of papain in proteolysis reactions. <i>International Journal of Biological Macromolecules</i> , 2021 , 184, 415-428	7.9	11
26	Photocatalytic Oxidation of VOCs in Gas Phase Using Capillary Microreactors with Commercial TiOI (P25) Fillings. <i>Materials</i> , 2018 , 11,	3.5	10
25	Development of exfoliated layered stannosilicate for hydrogen adsorption. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 13180-13188	6.7	10
24	Confined palladium colloids in mesoporous frameworks for carbon nanotube growth. <i>Journal of Materials Science</i> , 2009 , 44, 6563-6570	4.3	9
23	Ordered mesoporous titanium oxide for thin film microbatteries with enhanced lithium storage. <i>Electrochimica Acta</i> , 2015 , 166, 293-301	6.7	8
22	Immobilization of papain: A review. <i>International Journal of Biological Macromolecules</i> , 2021 , 188, 94-1	13 7.9	8
21	Pd and Cu-Pd nanoparticles supported on multiwall carbon nanotubes for H2 detection. <i>Materials Research Bulletin</i> , 2017 , 93, 102-111	5.1	7
20	Photo-microfluidic chip reactors for propene complete oxidation with TiO2 photocalyst using UV-LED light. <i>Journal of Environmental Chemical Engineering</i> , 2019 , 7, 103408	6.8	7
19	Zn-Promoted Selective Gas-Phase Hydrogenation of Tertiary and Secondary C4 Alkynols over Supported Pd. <i>ACS Applied Materials & Amp; Interfaces</i> , 2020 , 12, 28158-28168	9.5	7
18	Ferrosilicate-Based Heterogeneous Fenton Catalysts: Influence of Crystallinity, Porosity, and Iron Speciation. <i>Catalysis Letters</i> , 2018 , 148, 3134-3146	2.8	7
17	A new zeolitic hydroxymethylimidazolate material and its use in mixed matrix membranes based on 6FDA-DAM for gas separation. <i>Journal of Membrane Science</i> , 2017 , 544, 88-97	9.6	7
16	Zeolite A/carbon membranes for H2 purification from a simulated gas reformer mixture. <i>Journal of Membrane Science</i> , 2011 , 378, 407-414	9.6	7
15	Bimetallic PdZn Nanoparticles for the Partial Hydrogenation of Phenylacetylene. <i>Materials Science Forum</i> , 2008 , 604-605, 13-17	0.4	7
14	Synthesis and Permeation Properties of Silicalite-1/Carbon Membranes. <i>Industrial & Engineering Chemistry Research</i> , 2007 , 46, 3997-4006	3.9	7

LIST OF PUBLICATIONS

13	MCM-41 Porosity: Are Surface Corrugations Micropores?. <i>Adsorption Science and Technology</i> , 2011 , 29, 443-455	3.6	6
12	Nanoparticulate PdZn as a Novel Catalyst for ZnO Nanowire Growth. <i>Nanoscale Research Letters</i> , 2010 , 5, 904-7	5	5
11	Preparation of homogeneous CNT coatings in insulating capillary tubes by an innovative electrochemically-assisted method. <i>Carbon</i> , 2014 , 67, 564-571	10.4	4
10	Novelty without nobility: Outstanding Ni/Ti-SiO2 catalysts for propylene epoxidation. <i>Journal of Catalysis</i> , 2020 , 386, 94-105	7.3	4
9	Synthesis of TiO/Nanozeolite Composites for Highly Efficient Photocatalytic Oxidation of Propene in the Gas Phase. <i>ACS Omega</i> , 2020 , 5, 31323-31331	3.9	3
8	Efficient Production of Multi-Layer Graphene from Graphite Flakes in Water by Lipase-Graphene Sheets Conjugation. <i>Nanomaterials</i> , 2019 , 9,	5.4	3
7	Exploring CuxO-doped TiO2 modified with carbon nanotubes for CO2 photoreduction in a 2D-flow reactor. <i>Journal of CO2 Utilization</i> , 2021 , 54, 101796	7.6	3
6	Fullerene-Related Nanocarbons and Their Applications. <i>Journal of Nanotechnology</i> , 2012 , 2012, 1-2	3.5	1
5	Electrochemical Preparation of Nanoparticle Deposits: Application to Membranes and Catalysis 2011 , 395-407		1
4	Study of MWCNT Dispersion Effect in TiO2-MWCNT Composites for Gas-Phase Propene Photooxidation. <i>Materials Research Bulletin</i> , 2021 , 134, 111089	5.1	1
3	Controlled synthesis of mono- and bimetallic Pt-based catalysts for electrochemical ethanol oxidation. <i>Materials Chemistry and Physics</i> , 2022 , 275, 125282	4.4	О
2	Efficient production of hydrogen from a valuable CO2-derived molecule: Formic acid dehydrogenation boosted by biomass waste-derived catalysts. <i>Fuel</i> , 2022 , 320, 123900	7.1	O

Electrophoretic Deposition for the Synthesis of Inorganic Membranes **2011**, 381-393