

# ngel Berenguer-Murcia

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/8714969/angel-berenguer-murcia-publications-by-year.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Controlled synthesis of mono- and bimetallic Pt-based catalysts for electrochemical ethanol oxidation. <i>Materials Chemistry and Physics</i> , <b>2022</b> , 275, 125282	4.4	0
101	Efficient production of hydrogen from a valuable CO <sub>2</sub> -derived molecule: Formic acid dehydrogenation boosted by biomass waste-derived catalysts. <i>Fuel</i> , <b>2022</b> , 320, 123900	7.1	0
100	Enzyme co-immobilization: Always the biocatalyst designers' choice or not?. <i>Biotechnology Advances</i> , <b>2021</b> , 51, 107584	17.8	63
99	Exploring Cu <sub>x</sub> O-doped TiO <sub>2</sub> modified with carbon nanotubes for CO <sub>2</sub> photoreduction in a 2D-flow reactor. <i>Journal of CO<sub>2</sub> Utilization</i> , <b>2021</b> , 54, 101796	7.6	3
98	Photocatalytically-driven H <sub>2</sub> production over Cu/TiO <sub>2</sub> catalysts decorated with multi-walled carbon nanotubes. <i>Catalysis Today</i> , <b>2021</b> , 364, 182-189	5.3	13
97	Biotechnological relevance of the lipase A from <i>Candida antarctica</i> . <i>Catalysis Today</i> , <b>2021</b> , 362, 141-154	5.3	39
96	Study of MWCNT Dispersion Effect in TiO <sub>2</sub> -MWCNT Composites for Gas-Phase Propene Photooxidation. <i>Materials Research Bulletin</i> , <b>2021</b> , 134, 111089	5.1	1
95	Liquid lipase preparations designed for industrial production of biodiesel. Is it really an optimal solution?. <i>Renewable Energy</i> , <b>2021</b> , 164, 1566-1587	8.1	42
94	Bioactive peptides from fisheries residues: A review of use of papain in proteolysis reactions. <i>International Journal of Biological Macromolecules</i> , <b>2021</b> , 184, 415-428	7.9	11
93	Immobilization of papain: A review. <i>International Journal of Biological Macromolecules</i> , <b>2021</b> , 188, 94-113	7.9	8
92	Stabilization of enzymes via immobilization: Multipoint covalent attachment and other stabilization strategies. <i>Biotechnology Advances</i> , <b>2021</b> , 52, 107821	17.8	50
91	Synthesis of TiO <sub>2</sub> /Nanozeolite Composites for Highly Efficient Photocatalytic Oxidation of Propene in the Gas Phase. <i>ACS Omega</i> , <b>2020</b> , 5, 31323-31331	3.9	3
90	Zn-Promoted Selective Gas-Phase Hydrogenation of Tertiary and Secondary C <sub>4</sub> Alkynols over Supported Pd. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 28158-28168	9.5	7
89	Ficin: A protease extract with relevance in biotechnology and biocatalysis. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 162, 394-404	7.9	24
88	One Pot Use of Combilipases for Full Modification of Oils and Fats: Multifunctional and Heterogeneous Substrates. <i>Catalysts</i> , <b>2020</b> , 10, 605	4	35
87	Use of Alcalase in the production of bioactive peptides: A review. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 165, 2143-2196	7.9	42
86	Enzyme production of D-gluconic acid and glucose oxidase: successful tales of cascade reactions. <i>Catalysis Science and Technology</i> , <b>2020</b> , 10, 5740-5771	5.5	23

85	Novelty without nobility: Outstanding Ni/Ti-SiO <sub>2</sub> catalysts for propylene epoxidation. <i>Journal of Catalysis</i> , <b>2020</b> , 386, 94-105	7.3	4
84	Photo-microfluidic chip reactors for propene complete oxidation with TiO <sub>2</sub> photocatalyst using UV-LED light. <i>Journal of Environmental Chemical Engineering</i> , <b>2019</b> , 7, 103408	6.8	7
83	Lecitase ultra: A phospholipase with great potential in biocatalysis. <i>Molecular Catalysis</i> , <b>2019</b> , 473, 1104053	5.3	24
82	Immobilization of lipases on hydrophobic supports: immobilization mechanism, advantages, problems, and solutions. <i>Biotechnology Advances</i> , <b>2019</b> , 37, 746-770	17.8	254
81	Novozym 435: the perfect lipase immobilized biocatalyst?. <i>Catalysis Science and Technology</i> , <b>2019</b> , 9, 2380-2420	5.5	241
80	Carbon Nanotubes Modified With Au for Electrochemical Detection of Prostate Specific Antigen: Effect of Au Nanoparticle Size Distribution. <i>Frontiers in Chemistry</i> , <b>2019</b> , 7, 147	5	23
79	Dextran Aldehyde in Biocatalysis: More Than a Mere Immobilization System. <i>Catalysts</i> , <b>2019</b> , 9, 622	4	22
78	Efficient Production of Multi-Layer Graphene from Graphite Flakes in Water by Lipase-Graphene Sheets Conjugation. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	3
77	Genipin as An Emergent Tool in the Design of Biocatalysts: Mechanism of Reaction and Applications. <i>Catalysts</i> , <b>2019</b> , 9, 1035	4	27
76	Biotechnological Applications of Proteases in Food Technology. <i>Comprehensive Reviews in Food Science and Food Safety</i> , <b>2018</b> , 17, 412-436	16.4	118
75	Hydrogen Storage in Porous Materials: Status, Milestones, and Challenges. <i>Chemical Record</i> , <b>2018</b> , 18, 900-912	6.6	34
74	Facile encapsulation of P25 (TiO <sub>2</sub> ) in spherical silica with hierarchical porosity with enhanced photocatalytic properties for gas-phase propene oxidation. <i>Applied Catalysis A: General</i> , <b>2018</b> , 564, 123-132	5.1	13
73	Ferrosilicate-Based Heterogeneous Fenton Catalysts: Influence of Crystallinity, Porosity, and Iron Speciation. <i>Catalysis Letters</i> , <b>2018</b> , 148, 3134-3146	2.8	7
72	Photocatalytic Oxidation of VOCs in Gas Phase Using Capillary Microreactors with Commercial TiO <sub>2</sub> (P25) Fillings. <i>Materials</i> , <b>2018</b> , 11,	3.5	10
71	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> , <b>2017</b> , 227, 275-284	6.7	30
70	Pd and Cu-Pd nanoparticles supported on multiwall carbon nanotubes for H <sub>2</sub> detection. <i>Materials Research Bulletin</i> , <b>2017</b> , 93, 102-111	5.1	7
69	Key factors improving oxygen reduction reaction activity in cobalt nanoparticles modified carbon nanotubes. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 217, 303-312	21.8	46
68	Magnetic zeolites: novel nanoreactors through radiofrequency heating. <i>Chemical Communications</i> , <b>2017</b> , 53, 4262-4265	5.8	12

67	K- and Ca-promoted ferrosilicates for the gas-phase epoxidation of propylene with O <sub>2</sub> . <i>Applied Catalysis A: General</i> , <b>2017</b> , 538, 139-147	5.1	13
66	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> , <b>2017</b> , 544, 88-97	9.6	7
65	Polyethylenimine: a very useful ionic polymer in the design of immobilized enzyme biocatalysts. <i>Journal of Materials Chemistry B</i> , <b>2017</b> , 5, 7461-7490	7.3	162
64	Synthesis of TiO <sub>2</sub> with Hierarchical Porosity for the Photooxidation of Propene. <i>Molecules</i> , <b>2017</b> , 22,	4.8	14
63	Enhanced ammonia-borane decomposition by synergistic catalysis using CoPd nanoparticles supported on titano-silicates. <i>RSC Advances</i> , <b>2016</b> , 6, 91768-91772	3.7	11
62	Evolution of the PVP-Pd Surface Interaction in Nanoparticles through the Case Study of Formic Acid Decomposition. <i>Langmuir</i> , <b>2016</b> , 32, 12110-12118	4	46
61	Chemical Modification in the Design of Immobilized Enzyme Biocatalysts: Drawbacks and Opportunities. <i>Chemical Record</i> , <b>2016</b> , 16, 1436-55	6.6	132
60	One step-synthesis of highly dispersed iron species into silica for propylene epoxidation with dioxygen. <i>Journal of Catalysis</i> , <b>2016</b> , 338, 154-167	7.3	25
59	Pd/zeolite-based catalysts for the preferential CO oxidation reaction: ion-exchange, Si/Al and structure effect. <i>Catalysis Science and Technology</i> , <b>2016</b> , 6, 2623-2632	5.5	26
58	Structural and textural features of TiO <sub>2</sub> /SAPO-34 nanocomposite prepared by the sol-gel method. <i>Research on Chemical Intermediates</i> , <b>2016</b> , 42, 8039-8053	2.8	16
57	Beyond the H <sub>2</sub> /CO <sub>2</sub> 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> , <b>2015</b> , 3, 6549-6556	13	85
56	Ordered mesoporous titanium oxide for thin film microbatteries with enhanced lithium storage. <i>Electrochimica Acta</i> , <b>2015</b> , 166, 293-301	6.7	8
55	Capillary microreactors based on hierarchical SiO <sub>2</sub> monoliths incorporating noble metal nanoparticles for the Preferential Oxidation of CO. <i>Chemical Engineering Journal</i> , <b>2015</b> , 275, 71-78	14.7	26
54	Strategies for the one-step immobilization-purification of enzymes as industrial biocatalysts. <i>Biotechnology Advances</i> , <b>2015</b> , 33, 435-56	17.8	463
53	Palladium and Bimetallic Palladium-Nickel Nanoparticles Supported on Multiwalled Carbon Nanotubes: Application to Carbon-Carbon Bond-Forming Reactions in Water. <i>ChemCatChem</i> , <b>2015</b> , 7, 1841-1847	5.2	42
52	Importance of the Support Properties for Immobilization or Purification of Enzymes. <i>ChemCatChem</i> , <b>2015</b> , 7, 2413-2432	5.2	387
51	Immobilization of Proteins in Poly-Styrene-Divinylbenzene Matrices: Functional Properties and Applications. <i>Current Organic Chemistry</i> , <b>2015</b> , 19, 1707-1718	1.7	51
50	Glutaraldehyde in bio-catalysts design: a useful crosslinker and a versatile tool in enzyme immobilization. <i>RSC Advances</i> , <b>2014</b> , 4, 1583-1600	3.7	536

49	Single wall carbon nanotubes loaded with Pd and NiPd nanoparticles for H <sub>2</sub> sensing at room temperature. <i>Carbon</i> , <b>2014</b> , 66, 599-611	10.4	38
48	Amination of enzymes to improve biocatalyst performance: coupling genetic modification and physicochemical tools. <i>RSC Advances</i> , <b>2014</b> , 4, 38350-38374	3.7	91
47	Development of exfoliated layered stannosilicate for hydrogen adsorption. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 13180-13188	6.7	10
46	Preparation of homogeneous CNT coatings in insulating capillary tubes by an innovative electrochemically-assisted method. <i>Carbon</i> , <b>2014</b> , 67, 564-571	10.4	4
45	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 &amp; Interfaces</i> , <b>2014</b> , 6, 22506-18	9.5	11
44	Graphene-Clay Based Nanomaterials for Clean Energy Storage. <i>Science of Advanced Materials</i> , <b>2014</b> , 6, 151-158	2.3	21
43	Heterofunctional supports in enzyme immobilization: from traditional immobilization protocols to opportunities in tuning enzyme properties. <i>Biomacromolecules</i> , <b>2013</b> , 14, 2433-62	6.9	358
42	Clay-supported graphene materials: application to hydrogen storage. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 18635-41	3.6	53
41	Total oxidation of naphthalene at low temperatures using palladium nanoparticles supported on inorganic oxide-coated cordierite honeycomb monoliths. <i>Catalysis Science and Technology</i> , <b>2013</b> , 3, 2708	5.5	11
40	Binderless thin films of zeolite-templated carbon electrodes useful for electrochemical microcapacitors with ultrahigh rate performance. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 10331-4	3.6	17
39	Total oxidation of naphthalene using palladium nanoparticles supported on BETA, ZSM-5, SAPO-5 and alumina powders. <i>Applied Catalysis B: Environmental</i> , <b>2013</b> , 129, 98-105	21.8	24
38	Nanoarchitectures based on layered titanosilicates supported on glass fibers: application to hydrogen storage. <i>Langmuir</i> , <b>2013</b> , 29, 7449-55	4	22
37	Modifying enzyme activity and selectivity by immobilization. <i>Chemical Society Reviews</i> , <b>2013</b> , 42, 6290-30	58.5	1298
36	Fullerene-Related Nanocarbons and Their Applications. <i>Journal of Nanotechnology</i> , <b>2012</b> , 2012, 1-2	3.5	1
35	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> , <b>2012</b> , 187, 2-9	5.3	29
34	Hydrogen Peroxide in Biocatalysis. A Dangerous Liaison. <i>Current Organic Chemistry</i> , <b>2012</b> , 16, 2652-2672	1.7	103
33	MCM-41 Porosity: Are Surface Corrugations Micropores?. <i>Adsorption Science and Technology</i> , <b>2011</b> , 29, 443-455	3.6	6
32	Zeolite A/carbon membranes for H <sub>2</sub> purification from a simulated gas reformer mixture. <i>Journal of Membrane Science</i> , <b>2011</b> , 378, 407-414	9.6	7

31	Coupling Chemical Modification and Immobilization to Improve the Catalytic Performance of Enzymes. <i>Advanced Synthesis and Catalysis</i> , <b>2011</b> , 353, 2216-2238	5.6	268
30	Potential of Different Enzyme Immobilization Strategies to Improve Enzyme Performance. <i>Advanced Synthesis and Catalysis</i> , <b>2011</b> , 353, 2885-2904	5.6	1170
29	Nanoparticulate PdZn--pathways towards the synthetic control of nanosurface properties. <i>Nanotechnology</i> , <b>2011</b> , 22, 205701	3.4	13
28	Electrochemical Preparation of Nanoparticle Deposits: Application to Membranes and Catalysis <b>2011</b> , 395-407		1
27	Electrophoretic Deposition for the Synthesis of Inorganic Membranes <b>2011</b> , 381-393		
26	New Trends in the Recycling of NAD(P)H for the Design of Sustainable Asymmetric Reductions Catalyzed by Dehydrogenases. <i>Current Organic Chemistry</i> , <b>2010</b> , 14, 1000-1021	1.7	60
25	Hydrogen purification for PEM fuel cells using membranes prepared by ion-exchange of Na-LTA/carbon membranes. <i>Journal of Membrane Science</i> , <b>2010</b> , 351, 123-130	9.6	11
24	Nanoparticulate PdZn as a Novel Catalyst for ZnO Nanowire Growth. <i>Nanoscale Research Letters</i> , <b>2010</b> , 5, 904-7	5	5
23	Control of the thickness of mesoporous titania films for application in multiphase catalytic microreactors. <i>Journal of Catalysis</i> , <b>2010</b> , 271, 161-169	7.3	35
22	Preferential oxidation of CO catalyzed by supported polymer-protected palladium-based nanoparticles. <i>Applied Catalysis B: Environmental</i> , <b>2010</b> , 98, 161-170	21.8	43
21	Confined palladium colloids in mesoporous frameworks for carbon nanotube growth. <i>Journal of Materials Science</i> , <b>2009</b> , 44, 6563-6570	4.3	9
20	Selectivity control in hydrogenation reactions by nanoconfinement of polymetallic nanoparticles in mesoporous thin films. <i>Applied Catalysis A: General</i> , <b>2009</b> , 368, 87-96	5.1	19
19	Capillary microreactors wall-coated with mesoporous titania thin film catalyst supports. <i>Lab on A Chip</i> , <b>2009</b> , 9, 503-6	7.2	84
18	Selective Hydrogenation of 2-Methyl-3-butyne-2-ol in a Wall-Coated Capillary Microreactor with a Pd <sub>25</sub> Zn <sub>75</sub> /TiO <sub>2</sub> Catalyst. <i>Organic Process Research and Development</i> , <b>2009</b> , 13, 991-998	3.9	78
17	Selective oxidation with dioxygen by gold nanoparticle catalysts derived from 55-atom clusters. <i>Nature</i> , <b>2008</b> , 454, 981-3	50.4	1124
16	Inorganic materials as supports for palladium nanoparticles: Application in the semi-hydrogenation of phenylacetylene. <i>Journal of Catalysis</i> , <b>2008</b> , 257, 87-95	7.3	93
15	Bimetallic PdZn Nanoparticles for the Partial Hydrogenation of Phenylacetylene. <i>Materials Science Forum</i> , <b>2008</b> , 604-605, 13-17	0.4	7
14	Catalytic growth of carbon nanotubes on stainless steel: Characterization and frictional properties. <i>Diamond and Related Materials</i> , <b>2008</b> , 17, 1853-1857	3.5	25

13	Semihydrogenation of Phenylacetylene Catalyzed by Palladium Nanoparticles Supported on Carbon Materials. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 3827-3834	3.8	113
12	Electrochemical deposition of platinum nanoparticles on different carbon supports and conducting polymers. <i>Journal of Applied Electrochemistry</i> , <b>2008</b> , 38, 259-268	2.6	105
11	Gold supported on mesoporous titania thin films for application in microstructured reactors in low-temperature water-gas shift reaction. <i>Catalysis Today</i> , <b>2008</b> , 138, 210-215	5.3	32
10	Zeolite LTA/carbon membranes for air separation. <i>Microporous and Mesoporous Materials</i> , <b>2008</b> , 115, 51-60	5.3	13
9	Synthesis and Permeation Properties of Silicalite-1/Carbon Membranes. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2007</b> , 46, 3997-4006	3.9	7
8	Photocatalytic oxidation of propene at low concentration. <i>Applied Catalysis B: Environmental</i> , <b>2007</b> , 71, 298-309	21.8	28
7	Semihydrogenation of phenylacetylene catalyzed by metallic nanoparticles containing noble metals. <i>Journal of Catalysis</i> , <b>2006</b> , 243, 74-81	7.3	103
6	Preparation of silicalite-1 layers on Pt-coated carbon materials: a possible electrochemical approach towards membrane reactors. <i>Microporous and Mesoporous Materials</i> , <b>2005</b> , 78, 159-167	5.3	15
5	Highly efficient catalysts for the hydrogenation of nitro-substituted aromatics. <i>Chemical Communications</i> , <b>2005</b> , 2026-8	5.8	73
4	Probe Molecule Kinetic Studies of Adsorption on MCM-41. <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 1012-1020	3.4	43
3	Preparation of thin silicalite-1 layers on carbon materials by electrochemical methods. <i>Microporous and Mesoporous Materials</i> , <b>2003</b> , 66, 331-340	5.3	23
2	Silicalite-1 membranes supported on porous carbon discs. <i>Microporous and Mesoporous Materials</i> , <b>2003</b> , 59, 147-159	5.3	17
1	About the exclusive mesoporous character of MCM-41. <i>Studies in Surface Science and Catalysis</i> , <b>2002</b> , 144, 83-90	1.8	18