

Jorge Escorihuela

List of Publications by Year in descending order

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72
papers

2,050
citations

201385

27
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81
all docs

81
docs citations

81
times ranked

2355
citing authors

#	ARTICLE	IF	CITATIONS
1	Proton Conductivity of Composite Polyelectrolyte Membranes with Metal-Organic Frameworks for Fuel Cell Applications. <i>Advanced Materials Interfaces</i> , 2019, 6, 1801146.	1.9	130
2	Metal-Free Click Chemistry Reactions on Surfaces. <i>Advanced Materials Interfaces</i> , 2015, 2, 1500135.	1.9	106
3	New advances in dual stereocontrol for asymmetric reactions. <i>Chemical Society Reviews</i> , 2013, 42, 5595.	18.7	104
4	Dynamic covalent urea bonds and their potential for development of self-healing polymer materials. <i>Journal of Materials Chemistry A</i> , 2019, 7, 15933-15943.	5.2	101
5	Phosphoric Acid Doped Polybenzimidazole (PBI)/Zeolitic Imidazolate Framework Composite Membranes with Significantly Enhanced Proton Conductivity under Low Humidity Conditions. <i>Nanomaterials</i> , 2018, 8, 775.	1.9	92
6	Proton Exchange Membrane Fuel Cells (PEMFCs): Advances and Challenges. <i>Polymers</i> , 2021, 13, 3064.	2.0	90
7	Recent Progress in the Development of Composite Membranes Based on Polybenzimidazole for High Temperature Proton Exchange Membrane (PEM) Fuel Cell Applications. <i>Polymers</i> , 2020, 12, 1861.	2.0	84
8	Dual-Polarization Interferometry: A Novel Technique To Light up the Nanomolecular World. <i>Chemical Reviews</i> , 2015, 115, 265-294.	23.0	68
9	Acylic semicarbazide Moieties with Dynamic Reversibility and Multiple Hydrogen Bonding for Transparent, High Modulus, and Malleable Polymers. <i>Macromolecules</i> , 2020, 53, 7914-7924.	2.2	62
10	Efficient Chirality Switching in the Addition of Diethylzinc to Aldehydes in the Presence of Simple Chiral β -Amino Amides. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 9002-9005.	7.2	54
11	Nickel complexes from β -amino amides as efficient catalysts for the enantioselective Et ₂ Zn addition to benzaldehyde. <i>Tetrahedron Letters</i> , 2003, 44, 6891-6894.	0.7	53
12	DNA microarrays on silicon surfaces through thiol-ene chemistry. <i>Chemical Communications</i> , 2012, 48, 2116.	2.2	42
13	Ionic Liquid Composite Polybenzimidazole Membranes for High Temperature PEMFC Applications. <i>Polymers</i> , 2019, 11, 732.	2.0	42
14	Direct Covalent Attachment of DNA Microarrays by Rapid Thiol-Ene "Click" Chemistry. <i>Bioconjugate Chemistry</i> , 2014, 25, 618-627.	1.8	41
15	Synthesis of new chiral imidazolium salts derived from amino acids: their evaluation in chiral molecular recognition. <i>Tetrahedron: Asymmetry</i> , 2009, 20, 999-1003.	1.8	39
16	Proton conducting electrospun sulfonated polyether ether ketone graphene oxide composite membranes. <i>RSC Advances</i> , 2017, 7, 53481-53491.	1.7	38
17	Chiral bis(amino amides) as chiral solvating agents for enantiomeric excess determination of β -hydroxy and α -arylpropionic acids. <i>Tetrahedron: Asymmetry</i> , 2010, 21, 982-989.	1.8	36
18	Copper(II) complexes of bis(amino amide) ligands: effect of changes in the amino acid residue. <i>Dalton Transactions</i> , 2012, 41, 6764.	1.6	36

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19	Enhanced Conductivity of Composite Membranes Based on Sulfonated Poly(Ether Ether Ketone) (SPEEK) with Zeolitic Imidazolate Frameworks (ZIFs). <i>Nanomaterials</i> , 2018, 8, 1042.	1.9	35
20	New chiral tetraaza ligands for the efficient enantioselective addition of dialkylzinc to aromatic aldehydes. <i>Tetrahedron</i> , 2008, 64, 9717-9724.	1.0	34
21	Rapid Surface Functionalization of Hydrogen-Terminated Silicon by Alkyl Silanols. <i>Journal of the American Chemical Society</i> , 2017, 139, 5870-5876.	6.6	33
22	Coordination of Cu ²⁺ Ions to C ₂ -Symmetric Pseudopeptides Derived from Valine. <i>Inorganic Chemistry</i> , 2010, 49, 7841-7852.	1.9	32
23	Chiral Room Temperature Ionic Liquids as Enantioselective Promoters for the Asymmetric Aldol Reaction. <i>European Journal of Organic Chemistry</i> , 2014, 2014, 5356-5363.	1.2	31
24	Strain-Promoted Cycloaddition of Cyclopropenes with <i>o</i> -Quinones: A Rapid Click Reaction. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 10118-10122.	7.2	31
25	Site-specific immobilization of DNA on silicon surfaces by using the thiol-yne reaction. <i>Journal of Materials Chemistry B</i> , 2014, 2, 8510-8517.	2.9	30
26	Rapid and Complete Surface Modification with Strain-Promoted Oxidation-Controlled Cyclooctyne-1,2-Quinone Cycloaddition (SPOCQ). <i>Angewandte Chemie - International Edition</i> , 2017, 56, 3299-3303.	7.2	29
27	Bis(imidazolium) salts derived from amino acids as receptors and transport agents for chloride anions. <i>RSC Advances</i> , 2015, 5, 34415-34423.	1.7	28
28	Structural and dielectric properties of cobaltacarborane composite polybenzimidazole membranes as solid polymer electrolytes at high temperature. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 10173-10184.	1.3	25
29	Application of optically active chiral bis(imidazolium) salts as potential receptors of chiral dicarboxylate salts of biological relevance. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 5450-5459.	1.5	24
30	Kinetics of the Strain-Promoted Oxidation-Controlled Cycloalkyne-1,2-quinone Cycloaddition: Experimental and Theoretical Studies. <i>Journal of Organic Chemistry</i> , 2018, 83, 244-252.	1.7	24
31	Proton Conductivity through Polybenzimidazole Composite Membranes Containing Silica Nanofiber Mats. <i>Polymers</i> , 2019, 11, 1182.	2.0	24
32	Enantioselective nickel-catalyzed conjugate addition of dialkylzinc to chalcones using chiral $\hat{\alpha}$ -amino amides. <i>Tetrahedron Letters</i> , 2008, 49, 6885-6888.	0.7	23
33	Chemical silicon surface modification and bioreceptor attachment to develop competitive integrated photonic biosensors. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 404, 2831-2840.	1.9	23
34	Organic Monolayers by B(C ₆ F ₅) ₃ -Catalyzed Siloxanation of Oxidized Silicon Surfaces. <i>Langmuir</i> , 2017, 33, 2185-2193.	1.6	23
35	A Deep Insight into Different Acidic Additives as Doping Agents for Enhancing Proton Conductivity on Polybenzimidazole Membranes. <i>Polymers</i> , 2020, 12, 1374.	2.0	22
36	Development of Oligonucleotide Microarrays onto Si-Based Surfaces via Thioether Linkage Mediated by UV Irradiation. <i>Bioconjugate Chemistry</i> , 2012, 23, 2121-2128.	1.8	21

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37	Improved Performance of DNA Microarray Multiplex Hybridization Using Probes Anchored at Several Points by Thiolâ€“ene or Thiolâ€“yne Coupling Chemistry. <i>Bioconjugate Chemistry</i> , 2017, 28, 496-506.	1.8	20
38	Influence of the anion on diffusivity and mobility of ionic liquids composite polybenzimidazol membranes. <i>Electrochimica Acta</i> , 2020, 354, 136666.	2.6	20
39	C2 symmetrical nickel complexes derived from $\hat{\pm}$ -amino amides as efficient catalysts for the enantioselective addition of dialkylzinc reagents to aldehydes. <i>Tetrahedron</i> , 2013, 69, 551-558.	1.0	18
40	Use of Ambient Ionization High-Resolution Mass Spectrometry for the Kinetic Analysis of Organic Surface Reactions. <i>Langmuir</i> , 2016, 32, 3412-3419.	1.6	18
41	Polymer-supported chiral $\hat{\pm}$ -amino amides for the asymmetric addition of diethylzinc to aldehydes: Transforming an inactive homogeneous system into an efficient catalyst. <i>Applied Catalysis A: General</i> , 2013, 462-463, 23-30.	2.2	17
42	A simple peptidomimetic that self-associates on the solid state to form a nanoporous architecture containing chiral $\hat{\epsilon}$ -channels. <i>CrystEngComm</i> , 2010, 12, 1722.	1.3	15
43	Asymmetric Michael Addition in Synthesis of $\hat{2}$ -Substituted GABA Derivatives. <i>Molecules</i> , 2022, 27, 3797.	1.7	15
44	Asymmetric Methods for Carbonâ€“Fluorine Bond Formation. <i>European Journal of Organic Chemistry</i> , 2021, 2021, 5946-5974.	1.2	14
45	Pausonâ€“Khand reaction of fluorinated compounds. <i>Beilstein Journal of Organic Chemistry</i> , 2020, 16, 1662-1682.	1.3	13
46	Recent Advances on the Halo- and Cyano-Trifluoromethylation of Alkenes and Alkynes. <i>Molecules</i> , 2021, 26, 7221.	1.7	13
47	Preparation and Optimization of Polymer-Supported and Amino Alcohol Based Enantioselective Reagents and Catalysts. <i>Industrial & Engineering Chemistry Research</i> , 2003, 42, 5977-5982.	1.8	12
48	Characterization of the laccase-mediated oligomerization of 4-hydroxybenzoic acid. <i>RSC Advances</i> , 2016, 6, 99367-99375.	1.7	12
49	Experimental Study of the Oriented Immobilization of Antibodies on Photonic Sensing Structures by Using Protein A as an Intermediate Layer. <i>Sensors</i> , 2018, 18, 1012.	2.1	12
50	Approach Matters: The Kinetics of Interfacial Inverseâ€“Electron Demand Dielsâ€“Alder Reactions. <i>Chemistry - A European Journal</i> , 2017, 23, 13015-13022.	1.7	11
51	Direct and label-free monitoring oligonucleotide immobilization, non-specific binding and DNA biorecognition. <i>Sensors and Actuators B: Chemical</i> , 2014, 192, 221-228.	4.0	10
52	On the Stability and Formation of Pillar[<i>n</i>]arenes: a DFT Study. <i>Journal of Organic Chemistry</i> , 2021, 86, 14956-14963.	1.7	10
53	Strainâ€“Promoted Cycloaddition of Cyclopropenes with <i>o</i> -Quinones: A Rapid Click Reaction. <i>Angewandte Chemie</i> , 2018, 130, 10275-10279.	1.6	9
54	Supramolecularly assisted synthesis of chiral tripodal imidazolium compounds. <i>Organic Chemistry Frontiers</i> , 2019, 6, 1214-1225.	2.3	9

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55	Effect of metallocarborane salt H[COSANE] doping on the performance properties of polybenzimidazole membranes for high temperature PEMFCs. <i>Soft Matter</i> , 2020, 16, 7624-7635.	1.2	9
56	The Ruthenium-Catalyzed Domino Cross Enyne Metathesis/Ring-Closing Metathesis in the Synthesis of Enantioenriched Nitrogen-Containing Heterocycles. <i>European Journal of Organic Chemistry</i> , 2020, 2020, 4193-4207.	1.2	9
57	Asymmetric Synthesis of Fluorinated Monoterpenic Alkaloid Derivatives from Chiral Fluoroalkyl Aldimines via the Pauson-Khand Reaction. <i>Advanced Synthesis and Catalysis</i> , 2020, 362, 1378-1384.	2.1	9
58	Cycloaddition of Strained Cyclic Alkenes and <i>ortho</i> -Quinones: A Distortion/Interaction Analysis. <i>Journal of Organic Chemistry</i> , 2020, 85, 13557-13566.	1.7	8
59	Mechanistic implications of the enantioselective addition of alkylzinc reagents to aldehydes catalyzed by nickel complexes with $\hat{\pm}$ -amino amide ligands. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 11125-11136.	1.5	7
60	Rapid and Complete Surface Modification with Strain-Promoted Oxidation-Controlled Cyclooctyne- $\hat{\pm}$ -Quinone Cycloaddition (SPOCQ). <i>Angewandte Chemie</i> , 2017, 129, 3347-3351.	1.6	7
61	Distribution of Relaxation Times: Debye Length Distribution vs Electrode Polarization by a Cole-Cole Relaxation Model. <i>Journal of the Electrochemical Society</i> , 2022, 169, 013506.	1.3	6
62	Dual stereocontrolled alkylation of aldehydes with polystyrene-supported nickel complexes derived from $\hat{\pm}$ -amino amides. <i>RSC Advances</i> , 2015, 5, 14653-14662.	1.7	5
63	Structural and Electrochemical Analysis of CIGS: Cr Crystalline Nanopowders and Thin Films Deposited onto ITO Substrates. <i>Nanomaterials</i> , 2021, 11, 1093.	1.9	5
64	Diastereoselectivity of the Addition of Propargylic Magnesium Reagents to Fluorinated Aromatic Sulfinyl Imines. <i>Organic Letters</i> , 2021, 23, 3691-3695.	2.4	4
65	Real-time observation of antigen-antibody association using a low-cost biosensing system based on photonic bandgap structures. <i>Optics Letters</i> , 2012, 37, 3684.	1.7	3
66	New structural insights into the role of TROVE2 complexes in the on-set and pathogenesis of systemic lupus erythematosus determined by a combination of QCM-D and DPL. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 4709-4720.	1.9	3
67	Click Chemistry: Metal-Free Click Chemistry Reactions on Surfaces (<i>Adv. Mater. Interfaces</i> 13/2015). <i>Advanced Materials Interfaces</i> , 2015, 2, .	1.9	2
68	Unveiling anion-induced folding in tripodal imidazolium receptors by ion-mobility mass spectrometry. <i>Chemical Communications</i> , 2021, 57, 8616-8619.	2.2	2
69	Intramolecular rhodium-catalysed [2 + 2 + 2] cycloaddition of linear chiral <i>N</i> -bridged triynes: straightforward access to fused tetrahydroisoquinoline core. <i>Organic and Biomolecular Chemistry</i> , 2022, 20, 2433-2445.	1.5	2
70	Diffusivity and free anion concentration of ionic liquid composite polybenzimidazole membranes. <i>RSC Advances</i> , 2021, 11, 26379-26390.	1.7	1
71	Nickel Complexes from $\hat{\pm}$ -Amino Amides as Efficient Catalysts for the Enantioselective Et ₂ Zn Addition to Benzaldehyde. <i>ChemInform</i> , 2003, 34, no.	0.1	0
72	Inentitelbild: Strain-Promoted Cycloaddition of Cyclopropenes with <i>o</i> -Quinones: A Rapid Click Reaction (<i>Angew. Chem.</i> 32/2018). <i>Angewandte Chemie</i> , 2018, 130, 10136-10136.	1.6	0