

Fernanda Duarte

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5297387/publications.pdf>

Version: 2024-02-01

66
papers

2,616
citations

159358

30
h-index

205818

48
g-index

103
all docs

103
docs citations

103
times ranked

3581
citing authors

#	ARTICLE	IF	CITATIONS
1	Cation- π interactions in protein-ligand binding: theory and data-mining reveal different roles for lysine and arginine. <i>Chemical Science</i> , 2018, 9, 2655-2665.	3.7	184
2	Computing organic stereoselectivity from concepts to quantitative calculations and predictions. <i>Chemical Society Reviews</i> , 2016, 45, 6093-6107.	18.7	175
3	Force Field Independent Metal Parameters Using a Nonbonded Dummy Model. <i>Journal of Physical Chemistry B</i> , 2014, 118, 4351-4362.	1.2	148
4	A General Route to Bicyclo[1.1.1]pentanes through Photoredox Catalysis. <i>ACS Catalysis</i> , 2019, 9, 9568-9574.	5.5	112
5	Resolving Apparent Conflicts between Theoretical and Experimental Models of Phosphate Monoester Hydrolysis. <i>Journal of the American Chemical Society</i> , 2015, 137, 1081-1093.	6.6	92
6	Host-Guest-Induced Electron Transfer Triggers Radical-Cation Catalysis. <i>Journal of the American Chemical Society</i> , 2020, 142, 2134-2139.	6.6	74
7	Rationalizing the Activity of an Artificial Diels-Alderase: Establishing Efficient and Accurate Protocols for Calculating Supramolecular Catalysis. <i>Journal of the American Chemical Society</i> , 2020, 142, 1300-1310.	6.6	68
8	The Energetic Significance of Metallophilic Interactions. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 12617-12623.	7.2	65
9	Cooperative Electrostatic Interactions Drive Functional Evolution in the Alkaline Phosphatase Superfamily. <i>Journal of the American Chemical Society</i> , 2015, 137, 9061-9076.	6.6	63
10	Harnessing Sulfinyl Nitrenes: A Unified One-Pot Synthesis of Sulfoximines and Sulfonimidamides. <i>Journal of the American Chemical Society</i> , 2020, 142, 15445-15453.	6.6	59
11	Recent advances in QM/MM free energy calculations using reference potentials. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2015, 1850, 954-965.	1.1	56
12	Catalytic Asymmetric Synthesis of Cyclohexanes by Hydrogen Borrowing Annulations. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 12558-12562.	7.2	54
13	Highly Active Halogen Bonding and Chalcogen Bonding Chloride Transporters with Non-Protonophoric Activity. <i>Chemistry - A European Journal</i> , 2021, 27, 11738-11745.	1.7	54
14	Discovery of SARS-CoV-2 M ^{pro} peptide inhibitors from modelling substrate and ligand binding. <i>Chemical Science</i> , 2021, 12, 13686-13703.	3.7	54
15	Dearomative Photocatalytic Construction of Bridged 1,3-Diazepanes. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 4121-4130.	7.2	53
16	Synergistic Noncovalent Catalysis Facilitates Base-Free Michael Addition. <i>Journal of the American Chemical Society</i> , 2020, 142, 17743-17750.	6.6	51
17	Empirical valence bond simulations of the hydride transfer step in the monoamine oxidase B catalyzed metabolism of dopamine. <i>Proteins: Structure, Function and Bioinformatics</i> , 2014, 82, 3347-3355.	1.5	50
18	Reverse Polarity Reductive Functionalization of Tertiary Amides via a Dual Iridium-Catalyzed Hydrosilylation and Single Electron Transfer Strategy. <i>ACS Catalysis</i> , 2020, 10, 11438-11447.	5.5	50

#	ARTICLE	IF	CITATIONS
19	Catalytic Zinc Complexes for Phosphate Diester Hydrolysis. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 8246-8250.	7.2	49
20	autodE: Automated Calculation of Reaction Energy Profiles Application to Organic and Organometallic Reactions. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 4266-4274.	7.2	49
21	Molecular Recognition in Asymmetric Counteranion Catalysis: Understanding Chiral Phosphate-Mediated Desymmetrization. <i>Journal of the American Chemical Society</i> , 2017, 139, 8886-8896.	6.6	47
22	Modeling catalytic promiscuity in the alkaline phosphatase superfamily. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 11160.	1.3	46
23	The Competing Mechanisms of Phosphate Monoester Dianion Hydrolysis. <i>Journal of the American Chemical Society</i> , 2016, 138, 10664-10673.	6.6	46
24	Transmembrane anion transport mediated by halogen bonding and hydrogen bonding triazole anionophores. <i>Chemical Science</i> , 2020, 11, 4722-4729.	3.7	44
25	Tuning the anion binding properties of lanthanide receptors to discriminate nucleoside phosphates in a sensing array. <i>Chemical Science</i> , 2020, 11, 3619-3628.	3.7	43
26	Expanding the Catalytic Triad in Epoxide Hydrolases and Related Enzymes. <i>ACS Catalysis</i> , 2015, 5, 5702-5713.	5.5	42
27	Direct catalytic asymmetric synthesis of \pm -chiral bicyclo[1.1.1]pentanes. <i>Nature Communications</i> , 2021, 12, 1644.	5.8	39
28	The Mechanism of H ₂ Activation by (Amino)Carbenes. <i>Journal of Physical Chemistry A</i> , 2011, 115, 3050-3059.	1.1	38
29	Rationalizing the diverse reactivity of [1.1.1]propellane through π -delocalization. <i>Chemical Science</i> , 2020, 11, 4895-4903.	3.7	36
30	Mass spectrometry reveals potential of \hat{I}^2 -lactams as SARS-CoV-2 M ^{pro} inhibitors. <i>Chemical Communications</i> , 2021, 57, 1430-1433.	2.2	35
31	Evolutionary repurposing of a sulfatase: A new Michaelis complex leads to efficient transition state charge offset. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E7293-E7302.	3.3	34
32	Promiscuity in the Enzymatic Catalysis of Phosphate and Sulfate Transfer. <i>Biochemistry</i> , 2016, 55, 3061-3081.	1.2	32
33	Insights on the mechanism of proton transfer reactions in amino acids. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 7773.	1.3	31
34	Amino-oxetanes as amide isosteres by an alternative defluorosulfonylative coupling of sulfonyl fluorides. <i>Nature Chemistry</i> , 2022, 14, 160-169.	6.6	30
35	Stereospecific 1,3-H Transfer of Indenols Proceeds via Persistent Ion-Pairs Anchored by NH \hat{A} - \hat{A} - \hat{I} Interactions. <i>Journal of the American Chemical Society</i> , 2018, 140, 16740-16748.	6.6	29
36	Atropisomerism in Diarylamines: Structural Requirements and Mechanisms of Conformational Interconversion. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 18670-18678.	7.2	28

#	ARTICLE	IF	CITATIONS
37	How Does Pin1 Catalyze the Cis \leftrightarrow Trans Prolyl Peptide Bond Isomerization? A QM/MM and Mean Reaction Force Study. <i>Journal of Physical Chemistry B</i> , 2012, 116, 12972-12979.	1.2	26
38	The Alkaline Hydrolysis of Sulfonate Esters: Challenges in Interpreting Experimental and Theoretical Data. <i>Journal of Organic Chemistry</i> , 2014, 79, 2816-2828.	1.7	26
39	Catalytic Asymmetric Synthesis of Cyclohexanes by Hydrogen Borrowing Annulations. <i>Angewandte Chemie</i> , 2019, 131, 12688-12692.	1.6	26
40	<i>cgbind</i> : A Python Module and Web App for Automated Metallo cage Construction and Host \leftrightarrow Guest Characterization. <i>Journal of Chemical Information and Modeling</i> , 2020, 60, 3546-3557.	2.5	26
41	Red-shifted tetra- <i>ortho</i> -halo-azobenzenes for photo-regulated transmembrane anion transport. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 9058-9067.	1.5	26
42	A transferable active-learning strategy for reactive molecular force fields. <i>Chemical Science</i> , 2021, 12, 10944-10955.	3.7	26
43	Electrophilic Activation of [1.1.1]Propellane for the Synthesis of Nitrogen α -Substituted Bicyclo[1.1.1]pentanes. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	24
44	Computational Modeling of Supramolecular Metallo-organic Cages \leftrightarrow Challenges and Opportunities. <i>ACS Catalysis</i> , 2022, 12, 5806-5826.	5.5	24
45	Concerted or Stepwise: How Much Do Free-Energy Landscapes Tell Us about the Mechanisms of Elimination Reactions?. <i>Journal of Organic Chemistry</i> , 2014, 79, 1280-1288.	1.7	23
46	Deoxydehydration of vicinal diols and polyols catalyzed by pyridinium perchlorate salts. <i>Catalysis Science and Technology</i> , 2017, 7, 5644-5649.	2.1	23
47	Selectivity in organocatalysis \leftrightarrow From qualitative to quantitative predictive models. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2021, 11, e1518.	6.2	23
48	Characterization of the Zwitterionic Intermediate in 1,1 \leftrightarrow Carboboration of Alkynes. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 12731-12735.	7.2	22
49	The catalytic effect of water on the keto-enol tautomerisation reaction of thioformic acid. <i>Molecular Physics</i> , 2010, 108, 1375-1384.	0.8	19
50	Bio-inspired Domino oxa-Michael/Diels-Alder/oxa-Michael Dimerization of para -Quinols. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 6198-6202.	7.2	16
51	Total Synthesis of a Dimeric Thymol Derivative Isolated from <i>Arnica sachalinensis</i> . <i>Angewandte Chemie - International Edition</i> , 2017, 56, 6813-6817.	7.2	13
52	Mechanisms of histone lysine-modifying enzymes: A computational perspective on the role of the protein environment. <i>Journal of Molecular Graphics and Modelling</i> , 2016, 67, 69-84.	1.3	12
53	Atropisomerism in Diarylamines: Structural Requirements and Mechanisms of Conformational Interconversion. <i>Angewandte Chemie</i> , 2020, 132, 18829-18837.	1.6	12
54	The Energetic Significance of Metallophilic Interactions. <i>Angewandte Chemie</i> , 2019, 131, 12747-12753.	1.6	11

#	ARTICLE	IF	CITATIONS
55	Dearomatic Photocatalytic Construction of Bridged 1,3-Diazepanes. <i>Angewandte Chemie</i> , 2020, 132, 4150-4159.	1.6	10
56	Collective Synthesis of Illudalane Sesquiterpenes via Cascade Inverse Electron Demand (4 + 2) Cycloadditions of Thiophene <i>S</i> , <i>S</i> -Dioxides. <i>Journal of the American Chemical Society</i> , 2022, 144, 10017-10024.	6.6	7
57	Bio-inspired Domino oxa-Michael/Diels-Alder/oxa-Michael Dimerization of para -Quinols. <i>Angewandte Chemie</i> , 2018, 130, 6306-6310.	1.6	6
58	Relative Binding Energies Predict Crystallographic Binding Modes of Ethionamide Booster Lead Compounds. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 2244-2249.	2.1	5
59	Characterization of the Zwitterionic Intermediate in 1,1-Carboboration of Alkynes. <i>Angewandte Chemie</i> , 2020, 132, 12831-12835.	1.6	5
60	autodE: Automated Calculation of Reaction Energy Profiles Application to Organic and Organometallic Reactions. <i>Angewandte Chemie</i> , 2021, 133, 4312-4320.	1.6	5
61	Host-Guest Chemistry of Self-Assembled Hemi-Cage Systems: The Dramatic Effect of Lost Pre-Organization. <i>Israel Journal of Chemistry</i> , 2019, 59, 257-266.	1.0	4
62	<i>trans</i> -Hydroboration-oxidation products in ⁵ -steroids via a hydroboration- <i>retro</i> -hydroboration mechanism. <i>Chemical Science</i> , 2020, 11, 12764-12768.	3.7	3
63	Double and Triple Ionisation of Isocyanic Acid. <i>Scientific Reports</i> , 2020, 10, 2288.	1.6	3
64	Single photon double and triple ionization of allene. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 786-796.	1.3	3
65	Total Synthesis of a Dimeric Thymol Derivative Isolated from <i>Arnica sachalinensis</i> . <i>Angewandte Chemie</i> , 2017, 129, 6917-6921.	1.6	2
66	Electrophilic Activation of [1.1.1]Propellane for the Synthesis of Nitrogen-Substituted Bicyclo[1.1.1]pentanes. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	2