Judy I Wu

List of Publications by Year
in descending order

109 papers	3,075 citations	159585 30 h-index	197818 49 g-index
120 all docs	120 docs citations	120 times ranked	3629 citing authors

#	ARTICLE	IF	CITATIONS
1	Are <i>N</i>,<i>N</i>-Dihydrodiazatetracene Derivatives Antiaromatic?. Journal of the American Chemical Society, 2008, 130, 7339-7344.	13.7	158
2	Aromaticity in transition structures. Chemical Society Reviews, 2014, 43, 4909-4921.	38.1	124
3	Dissecting Porosity in Molecular Crystals: Influence of Geometry, Hydrogen Bonding, and [Ï€Â·Â·Â·Ï€] Stacking on the Solid-State Packing of Fluorinated Aromatics. Journal of the American Chemical Society, 2018, 140, 6014-6026.	13.7	106
4	Description of Aromaticity in Porphyrinoids. Journal of the American Chemical Society, 2013, 135, 315-321.	13.7	99
5	Substituent Effects on â€œHyperconjugativeâ€•Aromaticity and Antiaromaticity in Planar Cyclopolyenes. Organic Letters, 2013, 15, 2990-2993.	4.6	87
6	Aromaticity and Relative Stabilities of Azines. Organic Letters, 2010, 12, 4824-4827.	4.6	81
7	Multi-Stimuli Responsive FRET Processes of Bifluorophoric AIEgens in an Amphiphilic Copolymer and Its Application to Cyanide Detection in Aqueous Media. ACS Applied Materials & Interfaces, 2020, 12, 10959-10972.	8.0	81
8	Aromatic Transition States in Nonpericyclic Reactions: Anionic 5-Endo Cyclizations Are Aborted Sigmatropic Shifts. Journal of the American Chemical Society, 2012, 134, 10584-10594.	13.7	78
9	4n Ï€ Electrons but Stable:<i>N</i>,<i>N</i>-Dihydrodiazapentacenes. Journal of Organic Chemistry, 2009, 74, 4343-4349.	3.2	75
10	Hydrogen bond design principles. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2020, 10, e1477.	14.6	74
11	Is cyclobutadiene really highly destabilized by antiaromaticity?. Chemical Communications, 2012, 48, 8437.	4.1	71
12	Conformational Lability in Serine Protease Active Sites: Structures of Hepatocyte Growth Factor Activator (HGFA) Alone and with the Inhibitory Domain from HGFA Inhibitor-1B. Journal of Molecular Biology, 2005, 346, 1335-1349.	4.2	64
13	Is Cyclopropane Really the Ïƒâ€Aromatic Paradigm?. Chemistry - A European Journal, 2009, 15, 9730-9736.	3.3	63
14	Excited-state proton transfer relieves antiaromaticity in molecules. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 20303-20308.	7.1	63
15	Electrophile Affinity: A Reactivity Measure for Aromatic Substitution. Journal of the American Chemical Society, 2009, 131, 14722-14727.	13.7	60
16	Is C60 buckminsterfullerene aromatic?. Physical Chemistry Chemical Physics, 2012, 14, 14886.	2.8	58
17	Interplay of Ï€-Electron Delocalization and Strain in [<i>n</i>](2,7)Pyrenophanes. Journal of Organic Chemistry, 2008, 73, 8001-8009.	3.2	55
18	Mixed-carbene cyclometalated iridium complexes with saturated blue luminescence. Chemical Science, 2019, 10, 6254-6260.	7.4	55

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19	Why Cyclooctatetraene Is Highly Stabilized: The Importance of â€œTwo-Wayâ€•(Double) Hyperconjugation. Journal of Chemical Theory and Computation, 2012, 8, 1280-1287.	5.3	52
20	Hyperconjugation in hydrocarbons: Not just a â€œmild sort of conjugationâ€• Pure and Applied Chemistry, 2013, 85, 921-940.	1.9	51
21	Aromaticity in Groupâ€...14 Homologues of the Cyclopropenylium Cation. Chemistry - A European Journal, 2011, 17, 2215-2224.	3.3	50
22	Reciprocal Hydrogen Bondingâ€“Aromaticity Relationships. Journal of the American Chemical Society, 2014, 136, 13526-13529.	13.7	50
23	Starlike Aluminumâ€“Carbon Aromatic Species. Chemistry - A European Journal, 2011, 17, 714-719.	3.3	45
24	Highly Efficient FÃ¶rster Resonance Energy Transfer Modulations of Dual-AIEgens between a Tetraphenylethylene Donor and a Merocyanine Acceptor in Photo-Switchable [2]Rotaxanes and Reversible Photo-Patterning Applications. ACS Applied Materials & Interfaces, 2020, 12, 47921-47938.	8.0	43
25	The Effect of Perfluorination on the Aromaticity of Benzene and Heterocyclic Six-Membered Rings. Journal of Physical Chemistry A, 2009, 113, 6789-6794.	2.5	41
26	Homobenzene: Homoaromaticity and Homoantiaromaticity in Cycloheptatrienes. Journal of Physical Chemistry A, 2008, 112, 10586-10594.	2.5	36
27	Elucidating Secondary Metal Cation Effects on Nickel Olefin Polymerization Catalysts. ACS Catalysis, 2020, 10, 10760-10772.	11.2	36
28	Time-Resolved Measurements of Photocarrier Dynamics in TiS₃ Nanoribbons. ACS Applied Materials & Interfaces, 2016, 8, 18334-18338.	8.0	35
29	Free Cyclooctatetraene Dianion: Planarity, Aromaticity, and Theoretical Challenges. Journal of Chemical Theory and Computation, 2013, 9, 4436-4443.	5.3	33
30	Heteroleptic Complexes of Cyclometalated Platinum with Triarylformazanate Ligands. Inorganic Chemistry, 2016, 55, 956-963.	4.0	33
31	Preparation and characterization of pulsed laser deposited CdTe thin films at higher FTO substrate temperature and in Ar+O2 atmosphere. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2013, 178, 801-806.	3.5	32
32	Electron-driven proton transfer relieves excited-state antiaromaticity in photoexcited DNA base pairs. Chemical Science, 2020, 11, 10071-10077.	7.4	32
33	How does excited-state antiaromaticity affect the acidity strengths of photoacids?. Chemical Communications, 2020, 56, 8380-8383.	4.1	30
34	High-Performance Strain Sensors Based on Vertically Aligned Piezoelectric Zinc Oxide Nanowire Array/Graphene Nanohybrids. ACS Applied Nano Materials, 2020, 3, 6711-6718.	5.0	30
35	AMHB: (Anti)aromaticity-Modulated Hydrogen Bonding. Journal of the American Chemical Society, 2016, 138, 3427-3432.	13.7	29
36	Effects of the substrate temperature on the properties of CdTe thin films deposited by pulsed laser deposition. Surface and Coatings Technology, 2012, 213, 84-89.	4.8	27

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37	Effects of deposition temperature and CdCl2 annealing on the CdS thin films prepared by pulsed laser deposition. Journal of Alloys and Compounds, 2016, 654, 333-339.	5.5	27
38	Aromaticity Evaluations of Planar [6]Radialenes. Organic Letters, 2014, 16, 6116-6119.	4.6	26
39	Thiosquaramide-Based Supramolecular Polymers: Aromaticity Gain in a Switched Mode of Self-Assembly. Journal of the American Chemical Society, 2020, 142, 19907-19916.	13.7	26
40	A Thiadiazole-FusedN,N-Dihydroquinoxaline:Â Antiaromatic but Isolable. Organic Letters, 2007, 9, 1073-1076.	4.6	25
41	Graphene/WS₂ Nanodisk Van der Waals Heterostructures on Plasmonic Ag Nanoparticle-Embedded Silica Metafilms for High-Performance Photodetectors. ACS Applied Nano Materials, 2020, 3, 7858-7868.	5.0	25
42	Why Do Two Ï€-Electron Four-Membered HÃ¼ckel Rings Pucker?. Organic Letters, 2012, 14, 5712-5715.	4.6	23
43	Metalâ€“organic insertion light initiated radical (MILRad) polymerization: photo-initiated radical polymerization of vinyl polar monomers with various palladium diimine catalysts. Polymer Chemistry, 2019, 10, 3040-3047.	3.9	23
44	Optimization of FRET Behavior in Photoswitchable [2]Rotaxanes Containing Bifluorophoric Naphthalimide Donor and Merocyanine Acceptor with Sensor Approaches toward Sulfite Detection. Chemistry of Materials, 2020, 32, 9371-9389.	6.7	23
45	Multi-stimuli responsive fluorescence of amphiphilic AIEgen copolymers for ultrafast, highly sensitive and selective copper ion detection in water. Sensors and Actuators B: Chemical, 2021, 344, 130241.	7.8	22
46	A study of aromatic three membered rings. International Journal of Quantum Chemistry, 2011, 111, 1031-1038.	2.0	21
47	A HÃ¼ckel Theory Perspective on MÃ¶bius Aromaticity. Organic Letters, 2013, 15, 3432-3435.	4.6	21
48	Inkjet Printing Multicolor Pixelated Quantum Dots on Graphene for Broadband Photodetection. ACS Applied Nano Materials, 2019, 2, 3246-3252.	5.0	21
49	Late-Stage Modification of Electronic Properties of Antiaromatic and Diradicaloid Indeno[1,2-<i>b</i>]fluorene Analogues via Sulfur Oxidation. Journal of Organic Chemistry, 2020, 85, 10846-10857.	3.2	21
50	A Tale of Two Isomers: Enhanced Antiaromaticity/Diradical Character versus Deleterious Ringâ€Opening of Benzofuranâ€fused <i>s</i>â€Indacenes and Dicyclopenta[<i>b</i>,<i>g</i>]naphthalenes. Angewandte Chemie - International Edition, 2021, 60, 22385-22392.	13.8	21
51	Do Ï€-Conjugative Effects Facilitate SN2 Reactions?. Journal of the American Chemical Society, 2014, 136, 3118-3126.	13.7	20
52	Efficient Deep Blue Platinum Acetylide Phosphors with Acyclic Diaminocarbene Ligands. Chemistry - A European Journal, 2020, 26, 16028-16035.	3.3	20
53	Bairdâ€™s rules at the tipping point. Nature Chemistry, 2022, 14, 723-725.	13.6	20
54	Efficient FRET Approaches toward Copper(II) and Cyanide Detections via Hostâ€“Guest Interactions of Photo-Switchable [2]Pseudo-Rotaxane Polymers Containing Naphthalimide and Merocyanine Moieties. ACS Applied Materials & Interfaces, 2020, 12, 53257-53273.	8.0	19

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55	Why Are Some (CH)4X6 and (CH2)6X4 Polyheteroadamantanes So Stable?. Organic Letters, 2010, 12, 1320-1323.	4.6	18
56	Why Are S_{<i>n</i>}N₄ (<i>n</i> = 1â€"4) Species â€œMissingâ€? Answers in a Broader Theoretical Context of Binary Sâ€"N Compounds. Inorganic Chemistry, 2012, 51, 13321-13327.	4.0	18
57	Antiaromaticity Gain Activates Tropone and Nonbenzenoid Aromatics as Normal-Electron-Demand Dielsâ€"Alder Dienes. Organic Letters, 2020, 22, 7083-7087.	4.6	18
58	Switching the Reactivity of Palladium Diimines with â€œAncillaryâ€• Ligand to Select between Olefin Polymerization, Branching Regulation, or Olefin Isomerization. Angewandte Chemie - International Edition, 2021, 60, 1635-1640.	13.8	18
59	A Novel High-Power Battery-Pseudocapacitor Hybrid Based on Fast Lithium Reactions in Silicon Anode and Titanium Dioxide Cathode Coated on Vertically Aligned Carbon Nanofibers. Electrochimica Acta, 2015, 178, 797-805.	5.2	17
60	Self-Organization of Ions at the Interface between Graphene and Ionic Liquid DEME-TFSI. ACS Applied Materials & Interfaces, 2017, 9, 35437-35443.	8.0	17
61	Solvation-dependent switching of solid-state luminescence of a fluorinated aromatic tetrapyrazole. Chemical Communications, 2019, 55, 9387-9390.	4.1	17
62	Controllable FRET Behaviors of Supramolecular Hostâ€"Guest Systems as Ratiometric Aluminum Ion Sensors Manipulated by Tetraphenylethylene-Functionalized Macrocyclic Host Donor and Multistimuli-Responsive Fluorescein-Based Guest Acceptor. ACS Applied Materials & Interfaces, 2021, 13, 20662-20680.	8.0	17
63	Investigation into Photoconductivity in Single CNF/TiO2-Dye Coreâ€"Shell Nanowire Devices. Nanoscale Research Letters, 2010, 5, 1480-1486.	5.7	16
64	Discrimination of dicarboxylic acids <i>via</i> assembly-induced emission. Chemical Communications, 2018, 54, 11578-11581.	4.1	16
65	Antiaromaticity gain increases the potential for n-type charge transport in hydrogen-bonded Ï€-conjugated cores. Chemical Communications, 2020, 56, 2008-2011.	4.1	16
66	Ab Initio Study of the Geometry, Stability, and Aromaticity of the Cyclic S2N3+ Cation Isomers and Their Isoelectronic Analogues. Inorganic Chemistry, 2009, 48, 6773-6780.	4.0	15
67	Hydrogen bondâ€"aromaticity cooperativity in selfâ€assembling 4â€pyridone chains. Journal of Computational Chemistry, 2016, 37, 59-63.	3.3	15
68	Aromaticity gain increases the inherent association strengths of multipoint hydrogen-bonded arrays. Chemical Communications, 2018, 54, 3512-3515.	4.1	15
69	Printing High-Performance Tungsten Oxide Thin Film Ultraviolet Photodetectors on ZnO Quantum Dot Textured SiO₂ Surface. IEEE Sensors Journal, 2018, 18, 9542-9547.	4.7	15
70	Cyano-Isocyanide Iridium(III) Complexes with Pure Blue Phosphorescence. Inorganic Chemistry, 2021, 60, 6391-6402.	4.0	15
71	The hydrogen bond strength of the phenolâ€"phenolate anionic complex: a computational and photoelectron spectroscopic study. Physical Chemistry Chemical Physics, 2015, 17, 25109-25113.	2.8	13
72	Homoleptic Platinum Azo-iminate Complexes via Hydrogenative Cleavage of Formazans. Inorganic Chemistry, 2018, 57, 9468-9477.	4.0	13

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73	Luminol-labeled gold nanoparticles for ultrasensitive chemiluminescence-based chemical analyses. Analyst, The, 2013, 138, 5600.	3.5	12
74	Light Trapping on Plasmonic-Photonic Nanostructured Fluorine-Doped Tin Oxide. Journal of Physical Chemistry C, 2013, 117, 11725-11730.	3.1	12
75	Superalkali ligands as a building block for aromatic trinuclear Cu(<scp>i</scp>)â€“NHC complexes. Inorganic Chemistry Frontiers, 2019, 6, 3336-3344.	6.0	12
76	Dimension effect on the performance of carbon nanotube nanobolometers. Nanotechnology, 2014, 25, 425503.	2.6	11
77	Toward highly stable solid-state unconventional thin-film battery-supercapacitor hybrid devices: Interfacing vertical core-shell array electrodes with a gel polymer electrolyte. Journal of Power Sources, 2017, 342, 1006-1016.	7.8	11
78	Highâ€Field NMR Spectroscopy Reveals Aromaticityâ€Modulated Hydrogen Bonding in Heterocycles. Angewandte Chemie - International Edition, 2017, 56, 9842-9846.	13.8	11
79	Scalable Grapheneâ€onâ€Organometal Halide Perovskite Heterostructure Fabricated by Dry Transfer. Advanced Materials Interfaces, 2019, 6, 1801419.	3.7	11
80	On the large Ïƒ-hyperconjugation in alkanes and alkenes. Journal of Molecular Modeling, 2014, 20, 2228.	1.8	10
81	Probing effect of temperature on energy storage properties of relaxor-ferroelectric epitaxial Pb0.92La0.08Zr0.52Ti0.48O3 thin film capacitors. Thin Solid Films, 2016, 616, 711-716.	1.8	10
82	Highâ€Performance Photodetectors Based on Effective Exciton Dissociation in Proteinâ€Adsorbed Multiwalled Carbon Nanotube Nanohybrids. Advanced Optical Materials, 2017, 5, 1600478.	7.3	10
83	Inkjet-Printed Imbedded Graphene Nanoplatelet/Zinc Oxide Bulk Heterojunctions Nanocomposite Films for Ultraviolet Photodetection. ACS Omega, 2019, 4, 22497-22503.	3.5	10
84	FRET processes of bi-fluorophoric sensor material containing tetraphenylethylene donor and optical-switchable merocyanine acceptor for lead ion (Pb2+) detection in semi-aqueous media. Dyes and Pigments, 2021, 189, 109238.	3.7	10
85	Barrier-Lowering Effects of Baird Antiaromaticity in Photoinduced Proton-Coupled Electron Transfer (PCET) Reactions. Journal of the American Chemical Society, 2021, 143, 17970-17974.	13.7	10
86	<i>In situ</i> switch of boron nanowire growth mode from vapor-liquid-solid to oxide-assisted growth. Applied Physics Letters, 2008, 92, .	3.3	8
87	Enormous Hydrogen Bond Strength Enhancement through Ï€-Conjugation Gain: Implications for Enzyme Catalysis. Biochemistry, 2017, 56, 4318-4322.	2.5	8
88	Platinum(II)-Substituted Phenylacetylide Complexes Supported by Acyclic Diaminocarbene Ligands. Inorganic Chemistry, 2022, 61, 8498-8508.	4.0	8
89	Study of ArÂ+ÂO2 deposition pressures on properties of pulsed laser deposited CdTe thin films at high substrate temperature. Journal of Materials Science: Materials in Electronics, 2014, 25, 1901-1907.	2.2	7
90	Why do AÂ·T and GÂ·C self-sort? HÃ¼ckel aromaticity as a driving force for electronic complementarity in base pairing. Organic and Biomolecular Chemistry, 2019, 17, 1881-1885.	2.8	7

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91	The quest for a triplet groundâ€state alkene: Highly twisted Câ•C double bonds. Journal of Physical Organic Chemistry, 2019, 32, e3965.	1.9	7
92	Ground State Destabilization in Uracil DNA Glycosylase: Letâ€™s Not Forget â€œTautomeric Strainâ€•in Substrates. Journal of the American Chemical Society, 2019, 141, 13739-13743.	13.7	6
93	Azo-triazolide bis-cyclometalated Ir(<scp>iii</scp>) complexes <i>via</i> cyclization of 3-cyanodiarylformazanate ligands. Dalton Transactions, 2020, 49, 3775-3785.	3.3	6
94	Antiaromatic compounds: a brief history, applications, and the many ways they escape antiaromaticity. , 2021, , 319-338.		6
95	Cyclobenzoin Esters as Hosts for Thin Guests. Organic Letters, 2021, 23, 2253-2257.	4.6	5
96	Controllable FRET processes towards ratiometric Fe3+ ion sensor of pseudo [3]rotaxane containing naphthalimide-based macrocyclic host donor and multi-stimuli responsive rhodamine-modified guest acceptor. Dyes and Pigments, 2022, 197, 109907.	3.7	5
97	On the reciprocal relationship between Ïƒ-hole bonding and (anti)aromaticity gain in ketocyclopolyenes. Organic and Biomolecular Chemistry, 2020, 18, 5125-5129.	2.8	4
98	Self-assembling purine and pteridine quartets: how do Ï€-conjugation patterns affect resonance-assisted hydrogen bonding?. Organic and Biomolecular Chemistry, 2020, 18, 1078-1081.	2.8	4
99	A Mismatch-Free Strategy for the Diastereoselective Î±,Î±-Bisalkylation of Chiral Nonracemic Methyl Ketones. Organic Letters, 2018, 20, 3723-3727.	4.6	3
100	On the Mechanism of the Asymmetric Aldol Addition of Chiral Nâ€Amino Cyclic Carbamate Hydrazones: Evidence of Nonâ€Curtinâ€“Hammett Behavior. Chemistry - A European Journal, 2019, 25, 16037-16047.	3.3	3
101	Controlling Tautomerization in Pyridineâ€Fused Phosphorusâ€Nitrogen Heterocycles. Chemistry - A European Journal, 2022, 28, .	3.3	3
102	Efficient CO₂/CO Separation by Pressure Swing Adsorption Using an Intrinsically Nanoporous Molecular Crystal. ACS Applied Nano Materials, 2022, 5, 14021-14026.	5.0	3
103	Stabilizing Borinium Cations [Xâ€“Bâ€“X]⁺ through Conjugation and Hyperconjugation Effects. Inorganic Chemistry, 2019, 58, 243-249.	4.0	2
104	Switching the Reactivity of Palladium Diimines with â€œAncillaryâ€•Ligand to Select between Olefin Polymerization, Branching Regulation, or Olefin Isomerization. Angewandte Chemie, 2021, 133, 1659-1664.	2.0	2
105	Synthesis and Columnar Organization of Partially Fluorinated Dehydrobenz[18]annulenes. Crystal Growth and Design, 2022, 22, 2076-2081.	3.0	2
106	Highâ€Field NMR Spectroscopy Reveals Aromaticityâ€Modulated Hydrogen Bonding in Heterocycles. Angewandte Chemie, 2017, 129, 9974-9978.	2.0	1
107	A Tale of Two Isomers: Enhanced Antiaromaticity/Diradical Character versus Deleterious Ringâ€Opening of Benzofuranâ€fused s â€Indacenes and Dicyclopenta[b , g]naphthalenes. Angewandte Chemie, 2021, 133, 22559-22566.	2.0	1
108	Hydrogen bonding interactions can decrease clar sextet character in acridone pigments. Organic and Biomolecular Chemistry, 2021, 19, 9619-9623.	2.8	1

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109	Modern Treatments of Aromaticity. , 2018, , 273-288.		0