

Shih-Sheng Sun

List of Publications by Year in Descending Order

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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.

113
papers

5,216
citations

40
h-index

69
g-index

123
ext. papers

5,490
ext. citations

5.9
avg, IF

5.62
L-index

#	Paper	IF	Citations
113	Molecularly Engineered Cyclopenta[2,1-b;3,4-b?]dithiophene-Based Hole-Transporting Materials for High-Performance Perovskite Solar Cells with Efficiency over 19%. <i>ACS Applied Energy Materials</i> , 2021 , 4, 4719-4728	6.1	9
112	Heptacene: Synthesis and Its Hole-Transfer Property in Stable Thin Films. <i>Chemistry - A European Journal</i> , 2021 , 27, 10677-10684	4.8	5
111	An organic dye containing electron-rich cyclopentadithiophene for dye-sensitized solar cells with an efficiency over 28% at 6,000 lux. <i>Journal of the Chinese Chemical Society</i> , 2021 , 68, 952	1.5	1
110	Low-Cost Hole-Transporting Materials Based on Carbohelicene for High-Performance Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 20051-20059	9.5	1
109	Structural Engineering of Organic D-A- π Dyes Incorporated with a Dibutyl-Fluorene Moiety for High-Performance Dye-Sensitized Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 23513-23522	9.5	5
108	Tailoring Photophysical Properties of Diketopyrrolopyrrole Small Molecules with Electron-Withdrawing Moieties for Efficient Solar Steam Generation. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 38365-38374	9.5	1
107	Hydrogen Bonding-Induced H-Aggregation for Fluorescence Turn-On of the GFP Chromophore: Supramolecular Structural Rigidity. <i>Chemistry - A European Journal</i> , 2020 , 26, 5942-5945	4.8	8
106	A naphthalene-based colorimetric and fluorometric dual-channel chemodosimeter for sensing cyanide in a wide pH range. <i>Dyes and Pigments</i> , 2020 , 183, 108724	4.6	14
105	Donor-Acceptor Donor Type Cyclopenta[2,1-b;3,4-b?]dithiophene Derivatives as a New Class of Hole Transporting Materials for Highly Efficient and Stable Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2019 , 2, 7070-7082	6.1	20
104	Synthesis, Luminescence, and Structure of a Polymorphic Polyfluorinated Diiodoplatinum(II) Diimine Complex. <i>Inorganic Chemistry</i> , 2019 , 58, 10716-10724	5.1	1
103	New 2,3-diphenylquinoxaline containing organic D-A- π dyes with nickel oxide photocathode prepared by surfactant-mediated synthesis for high performance p-type dye-sensitized solar cells. <i>Dyes and Pigments</i> , 2019 , 163, 761-774	4.6	8
102	Rational Design of Cyclopenta[2,1-b;3,4-b?]dithiophene-bridged Hole Transporting Materials for Highly Efficient and Stable Perovskite Solar Cells. <i>Energy Technology</i> , 2019 , 7, 307-316	3.5	10
101	Lipid-Wrapped Upconversion Nanoconstruct/Photosensitizer Complex for Near-Infrared Light-Mediated Photodynamic Therapy. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 84-95	9.5	14
100	Thermally induced 1D to 2D polymer conversion accompanied by major packing changes in single-crystal-to-single-crystal transformation. <i>CrystEngComm</i> , 2018 , 20, 2346-2350	3.3	2
99	Synthesis and physical properties of brominated hexacene and hole-transfer properties of thin-film transistors.. <i>RSC Advances</i> , 2018 , 8, 13259-13265	3.7	6
98	Platinum(II)-directed Self-assembly Loop Complexes for Anion Recognition and Sensing. <i>Journal of the Chinese Chemical Society</i> , 2018 , 65, 141-148	1.5	1
97	New Helicene-Type Hole-Transporting Molecules for High-Performance and Durable Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 41439-41449	9.5	28

96	A General Strategy to Enhance the Performance of Dye-Sensitized Solar Cells by Incorporating a Light-Harvesting Dye with a Hydrophobic Polydiacetylene Electrolyte-Blocking Layer. <i>Chemistry - an Asian Journal</i> , 2017 , 12, 690-697	4.5	9
95	Structural Tuning of Anion-Templated Motifs with External Stimuli through Crystal-to-Crystal Transformation. <i>Chemistry - A European Journal</i> , 2017 , 23, 762-766	4.8	4
94	Cross-Linked Fluorescent Supramolecular Nanoparticles as Finite Tattoo Pigments with Controllable Intradermal Retention Times. <i>ACS Nano</i> , 2017 , 11, 153-162	16.7	9
93	Synthesis, Electrochemical and Photophysical Properties of 2,4,6-Tripyridyl-1,3,5-Triazine-Bridged Trinuclear Diimine Rhenium(I) Tricarbonyl Complexes. <i>European Journal of Inorganic Chemistry</i> , 2017 , 2017, 5224-5237	2.3	7
92	Fluorescence Enhancement of Unconstrained GFP Chromophore Analogues Based on the Push-Pull Substituent Effect. <i>Journal of Organic Chemistry</i> , 2017 , 82, 8031-8039	4.2	21
91	A phenothiazine/dimesitylborane hybrid material as a bipolar transport host of red phosphor. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 9499-9508	7.1	14
90	ZnO double layer film with a novel organic sensitizer as an efficient photoelectrode for dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2016 , 325, 209-219	8.9	14
89	Hole-Transporting Materials Based on Twisted Bimesitylenes for Stable Perovskite Solar Cells with High Efficiency. <i>ChemSusChem</i> , 2016 , 9, 274-9	8.3	39
88	Composite films of carbon black nanoparticles and sulfonated-polythiophene as flexible counter electrodes for dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2016 , 302, 155-163	8.9	60
87	Microemulsion-assisted Zinc Oxide Synthesis: Morphology Control and Its Applications in Photoanodes of Dye-Sensitized Solar Cells. <i>Electrochimica Acta</i> , 2016 , 210, 483-491	6.7	17
86	Efficient titanium nitride/titanium oxide composite photoanodes for dye-sensitized solar cells and water splitting. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 4695-4705	13	45
85	Low Dielectric Behavior of a Robust, Guest-Free Magnesium(II) Organic Framework: A Potential Application of an Alkaline-Earth Metal Compound. <i>European Journal of Inorganic Chemistry</i> , 2015 , 2015, 1669-1674	2.3	16
84	Iodide-free ionic liquid with dual redox couples for dye-sensitized solar cells with high open-circuit voltage. <i>ChemSusChem</i> , 2015 , 8, 1244-53	8.3	33
83	Structural diversity of new solid-state luminophores based on quinoxaline-ketoiminate boron difluoride complexes with remarkable fluorescence switching properties. <i>Chemical Communications</i> , 2015 , 51, 2656-9	5.8	62
82	Anion recognition and sensing by transition-metal complexes with polarized N H recognition motifs. <i>Coordination Chemistry Reviews</i> , 2015 , 284, 111-123	23.2	90
81	Structurally Flexible C ₂ Symmetric Receptors for Molecular Recognition and Their Self-Assembly Properties. <i>Chemical Record</i> , 2015 , 15, 1021-44	6.6	6
80	Recent progress in organic sensitizers for dye-sensitized solar cells. <i>RSC Advances</i> , 2015 , 5, 23810-23825	3.7	181
79	Template-assisted in situ polymerization for forming blue organic light-emitting nanotubes. <i>Chemical Communications</i> , 2014 , 50, 8208-10	5.8	4

78	Structure-performance correlations of organic dyes with an electron-deficient diphenylquinoxaline moiety for dye-sensitized solar cells. <i>Chemistry - A European Journal</i> , 2014 , 20, 10052-64	4.8	30
77	Structural engineering of dipolar organic dyes with an electron-deficient diphenylquinoxaline moiety for efficient dye-sensitized solar cells. <i>Tetrahedron</i> , 2014 , 70, 6276-6284	2.4	20
76	Highly Efficient Yellow Organic Light Emitting Diode with a Novel Wet- and Dry-Process Feasible Iridium Complex Emitter. <i>Advanced Functional Materials</i> , 2014 , 24, 555-562	15.6	60
75	Ionic liquid with a dual-redox couple for efficient dye-sensitized solar cells. <i>ChemSusChem</i> , 2014 , 7, 146-533	5.3	30
74	High-Efficiency Wet- and Dry-Processed Green Organic Light Emitting Diodes with a Novel Iridium Complex-Based Emitter. <i>Advanced Optical Materials</i> , 2013 , 1, 657-667	8.1	36
73	Quinoxaline based DAD molecules: high contrast reversible solid-state mechano- and thermo-responsive fluorescent materials. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 5491	7.1	70
72	Structurally simple thienodipyran-dione-containing reversible fluorescent switching piezo- and acido-chromic materials. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 6386	7.1	32
71	Supramolecular assemblies of amide-derived organogels featuring rigid π -conjugated phenylethynyl frameworks. <i>Langmuir</i> , 2013 , 29, 15146-58	4	37
70	The thermofluoric behavior of poly(fluorene- <i>co</i> -diphenylamine)- <i>co</i> -diazole pair in a polymer matrix. <i>RSC Advances</i> , 2013 , 3, 20227	3.7	
69	Recyclable nitrate-templated photochemical [2+2] cycloaddition reaction promoted by a tripodal receptor. <i>Chemical Communications</i> , 2013 , 49, 10070-2	5.8	19
68	Synthesis and photophysical properties of self-assembled metallogels of platinum(II) acetylide complexes with elaborate long-chain pyridine-2,6-dicarboxamides. <i>Chemistry - A European Journal</i> , 2012 , 18, 1312-21	4.8	40
67	Reversible encapsulation of a nitrate guest via hydrogen-bonded self-assembled capsule formation by a flexible tripodal receptor in polar solvent through dynamic self-assembly. <i>RSC Advances</i> , 2012 , 2, 9502	3.7	11
66	Manipulating the nanostructure of organogels generated from molecules with a 3-dimensional truxene core. <i>Chemical Communications</i> , 2012 , 48, 3515-7	5.8	15
65	Synthesis and characterization of para-pyridine linked NHC palladium complexes and their studies for the Heck-Mizoroki coupling reaction. <i>Dalton Transactions</i> , 2012 , 41, 7382-9	4.3	25
64	High-performance dipolar organic dyes with an electron-deficient diphenylquinoxaline moiety in the π -conjugation framework for dye-sensitized solar cells. <i>Chemistry - A European Journal</i> , 2012 , 18, 12085-95	4.8	61
63	Recognition, encapsulation, and selective fluorescence sensing of nitrate anion by neutral C3-symmetric tripodal podands bearing amide functionality. <i>Journal of Organic Chemistry</i> , 2012 , 77, 1880-90	4.2	45
62	Synthesis, Photophysical Properties, and Field-Effect Characteristics of (Ethyne-phenyl)benzimidazole-Decorated Anthracene and Perylene Bisimide Derivatives. <i>European Journal of Organic Chemistry</i> , 2012 , 2012, 2906-2915	3.2	16
61	Narcissistic self-sorting of hydrogen-bonded dimeric capsules formed through self-assembly of flexible tripodal receptors in polar solvents. <i>Chemical Communications</i> , 2012 , 48, 7392-4	5.8	27

60	High-performance organic materials for dye-sensitized solar cells: triarylene-linked dyads with a 4-tert-butylphenylamine donor. <i>Chemistry - an Asian Journal</i> , 2012 , 7, 572-81	4.5	26
59	Anion sensing by rhenium(I) carbonyls with polarized N π recognition motifs. <i>Inorganica Chimica Acta</i> , 2012 , 389, 16-28	2.7	26
58	Pt/Pd π -ethynyl Bond Containing Fluorescent Molecular Architectures as Sensors for Nitroaromatics 2012 , 275-316		2
57	Synthesis of electron deficient acene derivatives via a bidirectional iterative elongation reaction. <i>Organic and Biomolecular Chemistry</i> , 2011 , 9, 4507-17	3.9	25
56	Thioamide, urea and thiourea bridged rhenium(I) complexes as luminescent anion receptors. <i>Inorganica Chimica Acta</i> , 2011 , 374, 558-565	2.7	19
55	Photoswitching tetranuclear rhenium(I) tricarbonyl diimine complexes with a stilbene-like bridging ligand. <i>Chemical Communications</i> , 2011 , 47, 6030-2	5.8	40
54	Dynamic self-assembly of molecular capsules via solvent polarity controlled reversible binding of nitrate anions with C ₃ symmetric tripodal receptors. <i>Chemical Communications</i> , 2011 , 47, 8563-5	5.8	30
53	Chiral amplification in one-dimensional helical nanostructures self-organized from phenylethynyl thiophene with elaborated long-chain dicarboxamides. <i>Journal of Organic Chemistry</i> , 2011 , 76, 5524-30	4.2	13
52	A selective colorimetric Hg ²⁺ probe featuring a styryl dithiaazacrown containing platinum (II) terpyridine complex through modulation of the relative strength of ICT and MLCT transitions. <i>Inorganic Chemistry</i> , 2011 , 50, 2711-3	5.1	39
51	Dinuclear gold diselenophosphate complexes: structures and photoluminescence. <i>Inorganic Chemistry</i> , 2010 , 49, 7641-3	5.1	10
50	Molecular Recognition and Chemical Sensing of Anions Utilizing Excited-State Hydrogen-Bonding Interaction 2010 , 805-814		1
49	Photophysical studies of dipolar organic dyes that feature a 1,3-cyclohexadiene conjugated linkage: the implication of a twisted intramolecular charge-transfer state on the efficiency of dye-sensitized solar cells. <i>Chemistry - A European Journal</i> , 2010 , 16, 12873-82	4.8	34
48	Bifunctional maleimide dyes as selective anion sensors. <i>Tetrahedron</i> , 2009 , 65, 5216-5221	2.4	29
47	Halide functionality dependent formation of molecular receptors and their ion recognition properties. <i>Organic Letters</i> , 2009 , 11, 1867-70	6.2	21
46	White-light emission from an upconverted emission with an organic triplet sensitizer. <i>Chemical Communications</i> , 2009 , 4064-6	5.8	107
45	Photophysics and Photochemistry of Organometallic Rhenium Diimine Complexes. <i>Topics in Organometallic Chemistry</i> , 2009 , 37-71	0.6	43
44	Structurally simple dipolar organic dyes featuring 1,3-cyclohexadiene conjugated unit for dye-sensitized solar cells. <i>Organic Letters</i> , 2009 , 11, 377-80	6.2	64
43	Colorimetric and luminescent sensing of F ⁻ anion through strong anion- π interaction inside the π -acidic cavity of a pyridyl-triazine bridged trinuclear Re(I)-tricarbonyl diimine complex. <i>Chemical Communications</i> , 2009 , 1511-3	5.8	41

42	Synthesis, optical, and mesomorphic properties of self-assembled organogels featuring phenylethynyl framework with elaborated long-chain pyridine-2,6-dicarboxamides. <i>Langmuir</i> , 2009 , 25, 8714-22	4	55
41	New chromogenic and fluorescent probes for anion detection: formation of a [2 + 2] supramolecular complex on addition of fluoride with positive homotropic cooperativity. <i>Journal of Organic Chemistry</i> , 2008 , 73, 900-11	4.2	47
40	The Preparation of (8-Hydroxyquinolino)Bis(2-Phenylpyridyl)Iridium Complexes and Their Photophysical Properties. <i>Journal of the Chinese Chemical Society</i> , 2008 , 55, 439-448	1.5	14
39	Directed assembly metallocyclic supramolecular systems for molecular recognition and chemical sensing. <i>Coordination Chemistry Reviews</i> , 2008 , 252, 922-939	23.2	200
38	Probing Receptor-Anion Interactions by Ratiometric Chemosensors Containing Pyrrolecarboxamide Interacting Sites. <i>European Journal of Organic Chemistry</i> , 2007 , 2007, 3999-4010	3.2	36
37	Synthesis, photophysical, and anion-sensing properties of quinoxalinebis(sulfonamide) functionalized receptors and their metal complexes. <i>Inorganic Chemistry</i> , 2007 , 46, 9201-12	5.1	107
36	Photophysical studies of anion-induced colorimetric response and amplified fluorescence quenching in dipyrrolylquinoxaline-containing conjugated polymers. <i>Chemistry - A European Journal</i> , 2006 , 12, 2263-9	4.8	81
35	Dipyrrole carboxamide derived selective ratiometric probes for cyanide ion. <i>Organic Letters</i> , 2006 , 8, 5053-6	6.2	193
34	New fluorescent amide-functionalized phenylethynylthiophene low molecular weight gelator. <i>Organic Letters</i> , 2006 , 8, 387-90	6.2	56
33	Anthracene-induced turnover enhancement in the manganese porphyrin-catalyzed epoxidation of olefins. <i>Inorganic Chemistry</i> , 2005 , 44, 5523-9	5.1	26
32	Directed assembly of transition-metal-coordinated molecular loops and squares from salen-type components. Examples of metalation-controlled structural conversion. <i>Journal of the American Chemical Society</i> , 2004 , 126, 6314-26	16.4	185
31	Energy harvesting star-shaped molecules for electroluminescence applications. <i>Chemical Communications</i> , 2004 , 2328-9	5.8	35
30	Highly Phosphorescent Bis-Cyclometalated Iridium Complexes Containing Benzoimidazole-Based Ligands. <i>Chemistry of Materials</i> , 2004 , 16, 2480-2488	9.6	272
29	Characterization and purification of supramolecular metal complexes using gel-permeation chromatography. <i>Inorganic Chemistry</i> , 2004 , 43, 2013-7	5.1	25
28	Photophysical and Energy-Transfer Properties of (Salen)zinc Complexes and Supramolecular Assemblies. <i>European Journal of Inorganic Chemistry</i> , 2003 , 2003, 2348-2351	2.3	95
27	Transition-metal directed self-assembly of adamantoid-shaped supramolecules incorporating ferrocenyl moieties. <i>Inorganica Chimica Acta</i> , 2003 , 351, 363-368	2.7	9
26	A dinuclear rhenium complex, $\{[(C_{18}H_{24}N_2)Re(CO)_3]_2(OC_{12}H_{12}N_2)\}(PF_6)_2 \cdot 2CH_2Cl_2$. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2003 , 59, m134-m136		2
25	Highly sensitive luminescent metal-complex receptors for anions through charge-assisted amide hydrogen bonding. <i>Inorganic Chemistry</i> , 2003 , 42, 3445-53	5.1	126

24	Transition metal based supramolecular systems: synthesis, photophysics, photochemistry and their potential applications as luminescent anion chemosensors. <i>Coordination Chemistry Reviews</i> , 2002 , 230, 171-192	23.2	268
23	Synthesis, Photophysical Properties, and Photoinduced Luminescence Switching of Trinuclear Diimine Rhenium(I) Tricarbonyl Complexes Linked by an Isomerizable Stilbene-like Ligand. <i>Organometallics</i> , 2002 , 21, 39-49	3.8	90
22	Amorphous 2,3-Substituted Thiophenes: Potential Electroluminescent Materials. <i>Chemistry of Materials</i> , 2002 , 14, 1884-1890	9.6	49
21	Self-assembly of transition-metal-based macrocycles linked by photoisomerizable ligands: examples of photoinduced conversion of tetranuclear-dinuclear squares. <i>Inorganic Chemistry</i> , 2002 , 41, 1862-9	5.1	104
20	Synthesis and Electrochemical, Photophysical, and Anion Binding Properties of Self-Assembly Heterometallic Cyclophanes. <i>Organometallics</i> , 2002 , 21, 685-693	3.8	83
19	Photophysical and photochemical properties of W(0) and Re(i) carbonyl complexes incorporating ferrocenyl-substituted pyridine ligands. <i>Inorganic Chemistry</i> , 2002 , 41, 132-5	5.1	24
18	Acetonitriletricarbonyl(2,9-dimethyl-4,7-diphenyl-1,10-phenanthroline)rhenium(I) hexafluorophosphate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2001 , 57, m119-m121		7
17	Photophysics and evidence of excimer formation, linear bipyridines in solution and solid films. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2001 , 140, 157-161	4.7	12
16	Self-Assembly Molecular Architectures Incorporating Fluorene- and Carbazole-Based Bichromic Oligopyridines. Novel Photoactive Materials. <i>Organometallics</i> , 2001 , 20, 2262-2269	3.8	43
15	One-step self-assembly organometallic molecular cages from 11 components. <i>Chemical Communications</i> , 2001 , 103-104	5.8	53
14	Self-assembly organometallic squares with terpyridyl metal complexes as bridging ligands. <i>Inorganic Chemistry</i> , 2001 , 40, 3154-60	5.1	118
13	Synthesis and Photophysical Properties of Dinuclear Organometallic Rhenium(I) Diimine Complexes Linked by Pyridine-Containing Macrocyclic Phenylacetylene Ligands. <i>Organometallics</i> , 2001 , 20, 2353-2358	3.8	54
12	Self-Assembly Triangular and Square Rhenium(I) Tricarbonyl Complexes: A Comprehensive Study of Their Preparation, Electrochemistry, Photophysics, Photochemistry, and Host-Guest Properties. <i>Journal of the American Chemical Society</i> , 2000 , 122, 8956-8967	16.4	220
11	Anion recognition through hydrogen bonding: a simple, yet highly sensitive, luminescent metal-complex receptor. <i>Chemical Communications</i> , 2000 , 1687-1688	5.8	206
10	Photoswitchable trinuclear transition-metal complexes. Intramolecular triplet-triplet energy transfer from fac-(diimine)Re(CO) ₃ chromophores to a stilbene-like bridging ligand. <i>Chemical Communications</i> , 2000 , 201-202	5.8	41
9	Quantitative Photochemistry and Mechanisms for a Series of Rhodium Dicarboxyl Derivatives. <i>Inorganic Chemistry</i> , 2000 , 39, 4442-4451	5.1	27
8	Self-assembly molecular squares with metal complexes as bridging ligands. <i>Inorganic Chemistry</i> , 2000 , 39, 1344-5	5.1	63
7	New Self-Assembly Luminescent Molecular Triangle and Square Rhenium(I) Complexes. <i>Inorganic Chemistry</i> , 1999 , 38, 4181-4182	5.1	84

6	Syntheses and Reactivity of Ruthenium π -Pyridylacetylides. <i>Organometallics</i> , 1997 , 16, 2038-2048	3.8	67
5	Kinetic study of the Ce(III)- or ferriin-catalyzed Belousov-Zhabotinsky reaction with ethyl- or butyl-malonic acid. <i>International Journal of Chemical Kinetics</i> , 1996 , 28, 345-351	1.4	15
4	Rhenium carbonyls containing pyridyl ligands incorporating an alkyne entity. <i>Journal of Organometallic Chemistry</i> , 1996 , 517, 217-226	2.3	29
3	Dinuclear Metal Carbonyls Bridged by Pyridyl Ligands Incorporating an Alkyne Entity. <i>Inorganic Chemistry</i> , 1995 , 34, 2323-2333	5.1	54
2	The Mn(II)-Catalyzed Belousov-Zhabotinsky Reaction with Methyl-, Ethyl- or Butyl-Malonic Acid. <i>Journal of the Chinese Chemical Society</i> , 1994 , 41, 651-658	1.5	9
1	Kinetic study of the ferriin oxidation of malonic acid and its derivatives: implication in the Belousov-Zhabotinskii reaction. <i>The Journal of Physical Chemistry</i> , 1993 , 97, 8450-8457		23