Siyuan Zhang

List of Publications by Year in descending order

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37	1,994	24 h-index	35
papers	citations		g-index
38	38	38	3547
all docs	docs citations	times ranked	citing authors

#	Article	IF	CITATIONS
1	Conjugated Side-Chain-Isolated D–A Copolymers Based on Benzo[1,2- <i>b</i> :4,5- <i>b</i> ꀲ]dithiophene- <i>alt</i> -dithienylbenzotriazole: Synthesis and Photovoltaic Properties. Chemistry of Materials, 2012, 24, 3247-3254.	3.2	273
2	Controlled Doping of Largeâ€Area Trilayer MoS ₂ with Molecular Reductants and Oxidants. Advanced Materials, 2015, 27, 1175-1181.	11.1	183
3	Realization of mid-infrared graphene hyperbolic metamaterials. Nature Communications, 2016, 7, 10568.	5.8	183
4	Effective Solution―and Vacuumâ€Processed nâ€Doping by Dimers of Benzimidazoline Radicals. Advanced Materials, 2014, 26, 4268-4272.	11.1	139
5	Enhancing Fieldâ€Effect Mobility of Conjugated Polymers Through Rational Design of Branched Side Chains. Advanced Functional Materials, 2014, 24, 3734-3744.	7.8	112
6	Controllable, Wideâ∈Ranging nâ∈Doping and pâ∈Doping of Monolayer Group 6 Transitionâ∈Metal Disulfides and Diselenides. Advanced Materials, 2018, 30, e1802991.	11.1	97
7	Alkyl chain engineering on a dithieno[3,2-b:2′,3′-d]silole-alt-dithienylthiazolo[5,4-d]thiazole copolymer toward high performance bulk heterojunction solar cells. Chemical Communications, 2011, 47, 9474.	2.2	94
8	Synthesis and Photovoltaic Properties of D–A Copolymers Based on Dithienosilole and Benzotriazole. Macromolecules, 2011, 44, 7632-7638.	2.2	93
9	Unipolar Electron Transport Polymers: A Thiazole Based All-Electron Acceptor Approach. Chemistry of Materials, 2016, 28, 6045-6049.	3.2	85
10	Production of heavily n- and p-doped CVD graphene with solution-processed redox-active metal–organic species. Materials Horizons, 2014, 1, 111-115.	6.4	67
11	Chemical Bond Analysis of Nonlinearity of Urea Crystal. Journal of Physical Chemistry A, 1997, 101, 5547-5550.	1.1	61
12	KO ^{<i>t</i>} Bu-Initiated Aryl C–H Iodination: A Powerful Tool for the Synthesis of High Electron Affinity Compounds. Journal of the American Chemical Society, 2016, 138, 3946-3949.	6.6	57
13	Conjugated Side-Chain Isolated Polythiophene: Synthesis and Photovoltaic Application. Macromolecules, 2012, 45, 113-118.	2.2	53
14	Side Chain Engineering of Polythiophene Derivatives with a Thienylene–Vinylene Conjugated Side Chain for Application in Polymer Solar Cells. Macromolecules, 2012, 45, 2312-2320.	2.2	50
15	Comparison of the Optical and Electrochemical Properties of Bi(perylene diimide)s Linked through Ortho and Bay Positions. ACS Omega, 2017, 2, 377-385.	1.6	41
16	Calculation of the Bulk Modulus of Simple and Complex Crystals with the Chemical Bond Method. Journal of Physical Chemistry B, 2007, 111, 1304-1309.	1.2	37
17	Synthesis and photovoltaic properties of copolymers of carbazole and thiophene with conjugated side chain containing acceptor end groups. Polymer Chemistry, 2011, 2, 1678.	1.9	37
18	Ruddlesden–Popperâ€Phase Hybrid Halide Perovskite/Smallâ€Molecule Organic Blend Memory Transistors. Advanced Materials, 2021, 33, e2003137.	11.1	32

#	Article	IF	Citations
19	nâ€Dopants Based on Dimers of Benzimidazoline Radicals: Structures and Mechanism of Redox Reactions. Chemistry - A European Journal, 2015, 21, 10878-10885.	1.7	31
20	Comparison of 3D non-fullerene acceptors for organic photovoltaics based on naphthalene diimide and perylene diimide-substituted 9,9′-bifluorenylidene. RSC Advances, 2016, 6, 70493-70500.	1.7	27
21	Photochemical Doping and Tuning of the Work Function and Dirac Point in Graphene Using Photoacid and Photobase Generators. Advanced Functional Materials, 2014, 24, 5147-5156.	7.8	25
22	Facile Doping and Workâ€Function Modification of Fewâ€Layer Graphene Using Molecular Oxidants and Reductants. Advanced Functional Materials, 2017, 27, 1602004.	7.8	25
23	Solution-Processed Doping of Trilayer WSe ₂ with Redox-Active Molecules. Chemistry of Materials, 2017, 29, 7296-7304.	3.2	25
24	Improved contacts to p-type MoS2 transistors by charge-transfer doping and contact engineering. Applied Physics Letters, 2019, 115, .	1.5	25
25	Unraveling the compositional heterogeneity and carrier dynamics of alkali cation doped 3D/2D perovskites with improved stability. Materials Advances, 2021, 2, 1253-1262.	2.6	23
26	Reproducible Performance Improvements to Monolayer MoS ₂ Transistors through Exposed Material Forming Gas Annealing. ACS Applied Materials & Samp; Interfaces, 2019, 11, 16683-16692.	4.0	21
27	Efficient Hybrid Mixed″on Perovskite Photovoltaics: In Situ Diagnostics of the Roles of Cesium and Potassium Alkali Cation Addition. Solar Rrl, 2020, 4, 2000272.	3.1	19
28	Intermediate-Sized Conjugated Donor Molecules for Organic Solar Cells: Comparison of Benzodithiophene and Benzobisthiazole-Based Cores. Chemistry of Materials, 2017, 29, 7880-7887.	3.2	17
29	Role of Alkali-Metal Cations in Electronic Structure and Halide Segregation of Hybrid Perovskites. ACS Applied Materials & Diterfaces, 2020, 12, 34402-34412.	4.0	15
30	Effect of acceptor substituents on photophysical and photovoltaic properties of triphenylamineâ€"carbazole alternating copolymers. Synthetic Metals, 2011, 161, 1383-1389.	2.1	14
31	Wide-Band-Gap Mixed-Halide 3D Perovskites: Electronic Structure and Halide Segregation Investigation. ACS Applied Electronic Materials, 2021, 3, 2277-2285.	2.0	10
32	The role of Li-O bonds in calculations of nonlinear optical coefficients of LiXO ₃ -type complex crystals. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1998, 78, 29-36.	0.6	9
33	Organometallic hydride-transfer agents as reductants for organic semiconductor molecules. Inorganica Chimica Acta, 2019, 489, 67-77.	1.2	8
34	Mid-infrared hyperbolic metamaterial based on graphene-dielectric multilayers. , 2015, , .		3
35	The role of Li-O bonds in calculations of nonlinear optical coefficients of LiXO3-type complex crystals. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1998, 78, 29-36.	0.6	2
36	Synthesis and Photovoltaic Properties of a Polythiophene Derivative with Triphenylamine–Vinylene Conjugated Side Chain Attaching Carbonyl end Group. Advances in Polymer Technology, 2013, 32, .	0.8	1

ARTICLE

CALCULATION OF THE ELECTROSTATIC ENERGY

H<sub>efd) ON

4f^{Nâ^1}5d CONFIGURATION OF LANTHANIDE IONS.
. 2002. . .