

Siyuan Zhang

List of Publications by Year in descending order

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37
papers

1,994
citations

257357

24
h-index

360920

35
g-index

38
all docs

38
docs citations

38
times ranked

3547
citing authors

#	ARTICLE	IF	CITATIONS
1	Wide-Band-Gap Mixed-Halide 3D Perovskites: Electronic Structure and Halide Segregation Investigation. <i>ACS Applied Electronic Materials</i> , 2021, 3, 2277-2285.	2.0	10
2	Unraveling the compositional heterogeneity and carrier dynamics of alkali cation doped 3D/2D perovskites with improved stability. <i>Materials Advances</i> , 2021, 2, 1253-1262.	2.6	23
3	Ruddlesden-Popper Phase Hybrid Halide Perovskite/Small-Molecule Organic Blend Memory Transistors. <i>Advanced Materials</i> , 2021, 33, e2003137.	11.1	32
4	Efficient Hybrid Mixed-Halide Perovskite Photovoltaics: In Situ Diagnostics of the Roles of Cesium and Potassium Alkali Cation Addition. <i>Solar Rrl</i> , 2020, 4, 2000272.	3.1	19
5	Role of Alkali-Metal Cations in Electronic Structure and Halide Segregation of Hybrid Perovskites. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 34402-34412.	4.0	15
6	Improved contacts to p-type MoS ₂ transistors by charge-transfer doping and contact engineering. <i>Applied Physics Letters</i> , 2019, 115, .	1.5	25
7	Reproducible Performance Improvements to Monolayer MoS ₂ Transistors through Exposed Material Forming Gas Annealing. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 16683-16692.	4.0	21
8	Organometallic hydride-transfer agents as reductants for organic semiconductor molecules. <i>Inorganica Chimica Acta</i> , 2019, 489, 67-77.	1.2	8
9	Controllable, Wide-Ranging n-Doping and p-Doping of Monolayer Group 6 Transition-Metal Disulfides and Diselenides. <i>Advanced Materials</i> , 2018, 30, e1802991.	11.1	97
10	Comparison of the Optical and Electrochemical Properties of Bi(perylene diimide)s Linked through Ortho and Bay Positions. <i>ACS Omega</i> , 2017, 2, 377-385.	1.6	41
11	Facile Doping and Work-Function Modification of Few-Layer Graphene Using Molecular Oxidants and Reductants. <i>Advanced Functional Materials</i> , 2017, 27, 1602004.	7.8	25
12	Intermediate-Sized Conjugated Donor Molecules for Organic Solar Cells: Comparison of Benzodithiophene and Benzobisthiazole-Based Cores. <i>Chemistry of Materials</i> , 2017, 29, 7880-7887.	3.2	17
13	Solution-Processed Doping of Trilayer WSe ₂ with Redox-Active Molecules. <i>Chemistry of Materials</i> , 2017, 29, 7296-7304.	3.2	25
14	Unipolar Electron Transport Polymers: A Thiazole Based All-Electron Acceptor Approach. <i>Chemistry of Materials</i> , 2016, 28, 6045-6049.	3.2	85
15	Comparison of 3D non-fullerene acceptors for organic photovoltaics based on naphthalene diimide and perylene diimide-substituted 9,9-bifluorenylidene. <i>RSC Advances</i> , 2016, 6, 70493-70500.	1.7	27
16	KO ^t Bu-Initiated Aryl C-H Iodination: A Powerful Tool for the Synthesis of High Electron Affinity Compounds. <i>Journal of the American Chemical Society</i> , 2016, 138, 3946-3949.	6.6	57
17	Realization of mid-infrared graphene hyperbolic metamaterials. <i>Nature Communications</i> , 2016, 7, 10568.	5.8	183
18	n-Dopants Based on Dimers of Benzimidazoline Radicals: Structures and Mechanism of Redox Reactions. <i>Chemistry - A European Journal</i> , 2015, 21, 10878-10885.	1.7	31

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19	Controlled Doping of Large Area Trilayer MoS ₂ with Molecular Reductants and Oxidants. <i>Advanced Materials</i> , 2015, 27, 1175-1181.	11.1	183
20	Mid-infrared hyperbolic metamaterial based on graphene-dielectric multilayers. , 2015, , .		3
21	Production of heavily n- and p-doped CVD graphene with solution-processed redox-active metal-organic species. <i>Materials Horizons</i> , 2014, 1, 111-115.	6.4	67
22	Effective Solution- and Vacuum-Processed n-Doping by Dimers of Benzimidazoline Radicals. <i>Advanced Materials</i> , 2014, 26, 4268-4272.	11.1	139
23	Enhancing Field-Effect Mobility of Conjugated Polymers Through Rational Design of Branched Side Chains. <i>Advanced Functional Materials</i> , 2014, 24, 3734-3744.	7.8	112
24	Photochemical Doping and Tuning of the Work Function and Dirac Point in Graphene Using Photoacid and Photobase Generators. <i>Advanced Functional Materials</i> , 2014, 24, 5147-5156.	7.8	25
25	Synthesis and Photovoltaic Properties of a Polythiophene Derivative with Triphenylamine-Vinylene Conjugated Side Chain Attaching Carbonyl end Group. <i>Advances in Polymer Technology</i> , 2013, 32, .	0.8	1
26	Side Chain Engineering of Polythiophene Derivatives with a Thienylene-Vinylene Conjugated Side Chain for Application in Polymer Solar Cells. <i>Macromolecules</i> , 2012, 45, 2312-2320.	2.2	50
27	Conjugated Side-Chain Isolated Polythiophene: Synthesis and Photovoltaic Application. <i>Macromolecules</i> , 2012, 45, 113-118.	2.2	53
28	Conjugated Side-Chain-Isolated D-A Copolymers Based on Benzo[1,2-b:4,5-b']dithiophene-alt-dithienylbenzotriazole: Synthesis and Photovoltaic Properties. <i>Chemistry of Materials</i> , 2012, 24, 3247-3254.	3.2	273
29	Synthesis and photovoltaic properties of copolymers of carbazole and thiophene with conjugated side chain containing acceptor end groups. <i>Polymer Chemistry</i> , 2011, 2, 1678.	1.9	37
30	Synthesis and Photovoltaic Properties of D-A Copolymers Based on Dithienosilole and Benzotriazole. <i>Macromolecules</i> , 2011, 44, 7632-7638.	2.2	93
31	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. <i>Chemical Communications</i> , 2011, 47, 9474.	2.2	94
32	Effect of acceptor substituents on photophysical and photovoltaic properties of triphenylamine-carbazole alternating copolymers. <i>Synthetic Metals</i> , 2011, 161, 1383-1389.	2.1	14
33	Calculation of the Bulk Modulus of Simple and Complex Crystals with the Chemical Bond Method. <i>Journal of Physical Chemistry B</i> , 2007, 111, 1304-1309.	1.2	37
34	CALCULATION OF THE ELECTROSTATIC ENERGY OF H _e (f) ON 4N ¹ 5d CONFIGURATION OF LANTHANIDE IONS. , 2002, , .		0
35	The role of Li-O bonds in calculations of nonlinear optical coefficients of LiXO ₃ -type complex crystals. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1998, 78, 29-36.	0.6	9
36	The role of Li-O bonds in calculations of nonlinear optical coefficients of LiXO ₃ -type complex crystals. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1998, 78, 29-36.	0.6	2

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37	Chemical Bond Analysis of Nonlinearity of Urea Crystal. Journal of Physical Chemistry A, 1997, 101, 5547-5550.	1.1	61