

Maxime Babics

List of Publications by Year in descending order

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33
papers

1,659
citations

304602

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395590

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35
docs citations

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times ranked

1740
citing authors

#	ARTICLE	IF	CITATIONS
1	Damp heat-stable perovskite solar cells with tailored-dimensionality 2D/3D heterojunctions. <i>Science</i> , 2022, 376, 73-77.	6.0	366
2	Efficient and stable perovskite-silicon tandem solar cells through contact displacement by MgF ₂ . <i>Science</i> , 2022, 377, 302-306.	6.0	141
3	28.2%-efficient, outdoor-stable perovskite/silicon tandem solar cell. <i>Joule</i> , 2021, 5, 3169-3186.	11.7	99
4	Bridge-Independent 2-(Benzo[1,2,5]thiadiazol-4-ylmethylene)malonitrile-Substituted Nonfullerene Acceptors for Efficient Bulk Heterojunction Solar Cells. <i>Chemistry of Materials</i> , 2016, 28, 2200-2208.	3.2	98
5	Ligand-bridged charge extraction and enhanced quantum efficiency enable efficient n-i-p perovskite/silicon tandem solar cells. <i>Energy and Environmental Science</i> , 2021, 14, 4377-4390.	15.6	79
6	Higher Mobility and Carrier Lifetimes in Solution-Processable Small-Molecule Ternary Solar Cells with 11% Efficiency. <i>Advanced Energy Materials</i> , 2019, 9, 1802836.	10.2	65
7	Carrier Transport and Recombination in Efficient All-Small-Molecule Solar Cells with the Nonfullerene Acceptor IDTBR. <i>Advanced Energy Materials</i> , 2018, 8, 1800264.	10.2	63
8	Triphenylamine-Based Push-Pull C ₆₀ Dyad As Photoactive Molecular Material for Single-Component Organic Solar Cells: Synthesis, Characterizations, and Photophysical Properties. <i>Chemistry of Materials</i> , 2018, 30, 3474-3485.	3.2	58
9	Solvent Vapor Annealing-Mediated Crystallization Directs Charge Generation, Recombination and Extraction in BHJ Solar Cells. <i>Chemistry of Materials</i> , 2018, 30, 789-798.	3.2	48
10	Impact of Nonfullerene Acceptor Side Chain Variation on Transistor Mobility. <i>Advanced Electronic Materials</i> , 2019, 5, 1900344.	2.6	45
11	Mixed Domains Enhance Charge Generation and Extraction in Bulk-Heterojunction Solar Cells with Small-Molecule Donors. <i>Advanced Energy Materials</i> , 2018, 8, 1702941.	10.2	43
12	Toward Stable Monolithic Perovskite/Silicon Tandem Photovoltaics: A Six-Month Outdoor Performance Study in a Hot and Humid Climate. <i>ACS Energy Letters</i> , 2021, 6, 2944-2951.	8.8	42
13	Benzo[1,2-b:4,5-b']dithiophene-Pyrido[3,4-b]pyrazine Small-Molecule Donors for Bulk Heterojunction Solar Cells. <i>Chemistry of Materials</i> , 2016, 28, 2058-2066.	3.2	41
14	End Group Tuning in Acceptor-Donor-Acceptor Nonfullerene Small Molecules for High Fill Factor Organic Solar Cells. <i>Advanced Functional Materials</i> , 2019, 29, 1808429.	7.8	41
15	Additive-Morphology Interplay and Loss Channels in All-Small-Molecule-Bulk-Heterojunction (BHJ) Solar Cells with the Nonfullerene Acceptor IDTTBM. <i>Advanced Functional Materials</i> , 2018, 28, 1705464.	7.8	40
16	Nonfullerene-Based Organic Photodetectors for Ultrahigh Sensitivity Visible Light Detection. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 48836-48844.	4.0	40
17	Impact of Polymer Side Chain Modification on OPV Morphology and Performance. <i>Chemistry of Materials</i> , 2018, 30, 7872-7884.	3.2	38
18	Non-fullerene-based organic photodetectors for infrared communication. <i>Journal of Materials Chemistry C</i> , 2021, 9, 2375-2380.	2.7	37

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19	Atomic-layer-deposited AZO outperforms ITO in high-efficiency polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2018, 6, 10176-10183.	5.2	33
20	Solvent Annealing Effects in Dithieno[3,2- <i>b</i> :2,3- <i>d'</i>]pyrrole-5,6-Difluorobenzo[1,2,5]thiadiazole Small Molecule Donors for Bulk-Heterojunction Solar Cells. <i>Chemistry of Materials</i> , 2016, 28, 5415-5425.	3.2	28
21	Negligible Energy Loss During Charge Generation in Small-Molecule/Fullerene Bulk-Heterojunction Solar Cells Leads to Open-Circuit Voltage over 1.10 V. <i>ACS Applied Energy Materials</i> , 2019, 2, 2717-2722.	2.5	27
22	Donor and Acceptor Unit Sequences Influence Material Performance in Benzo[1,2- <i>b</i> :4,5- <i>b'</i>]dithiophene-6,7-Difluoroquinoxaline Small Molecule Donors for BHJ Solar Cells. <i>Advanced Functional Materials</i> , 2016, 26, 7103-7114.	7.8	26
23	Mechanical Reliability of Fullerene/Tin Oxide Interfaces in Monolithic Perovskite/Silicon Tandem Cells. <i>ACS Energy Letters</i> , 2022, 7, 827-833.	8.8	25
24	Long-Range Molecular Self-Assembly from π -Extended Pyrene-Functionalized Diketopyrrolopyrroles. <i>Chemistry of Materials</i> , 2018, 30, 5032-5040.	3.2	22
25	F-Substituted oligothiophenes serve as nonfullerene acceptors in polymer solar cells with open-circuit voltages >1 V. <i>Journal of Materials Chemistry A</i> , 2018, 6, 9368-9372.	5.2	21
26	All Set for Efficient and Reliable Perovskite/Silicon Tandem Photovoltaic Modules?. <i>Solar Rrl</i> , 2022, 6, 2100493.	3.1	21
27	Monolithic Perovskite/Silicon Tandem Photovoltaics with Minimized Cell-to-Module Losses by Refractive-Index Engineering. <i>ACS Energy Letters</i> , 2022, 7, 2370-2372.	8.8	20
28	Unleashing the Full Power of Perovskite/Silicon Tandem Modules with Solar Trackers. <i>ACS Energy Letters</i> , 2022, 7, 1604-1610.	8.8	18
29	Benzo[1,2- <i>b</i> :4,5- <i>b'</i>]Dithiophene-6,7-Difluoroquinoxaline Small Molecule Donors with $>8\%$ BHJ Solar Cell Efficiency. <i>Advanced Energy Materials</i> , 2017, 7, 1602804.	10.2	11
30	Difluorinated Oligothiophenes for High-Efficiency All-Small-Molecule Organic Solar Cells: Positional Isomeric Effect of Fluorine Substitution on Performance Variations. <i>Solar Rrl</i> , 2020, 4, 1900472.	3.1	11
31	<i>N</i> -Acylisoindigo Derivatives as Polymer Acceptors for α -Polymer-Bulk-Heterojunction Solar Cells. <i>Macromolecular Chemistry and Physics</i> , 2019, 220, 1900029.	1.1	4
32	The multiple ways of making perovskite/silicon tandem solar cells: Which way to go?. , 0, , .		0
33	Monolithic perovskite/silicon tandem solar cells: combining stability with high performance. , 0, , .		0