

Reiner Sebastian Sprick

List of Publications by Year in descending order

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68
papers

7,014
citations

109311

35
h-index

95259

68
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82
all docs

82
docs citations

82
times ranked

5555
citing authors

#	ARTICLE	IF	CITATIONS
1	Sulfone-containing covalent organic frameworks for photocatalytic hydrogen evolution from water. <i>Nature Chemistry</i> , 2018, 10, 1180-1189.	13.6	883
2	Tunable Organic Photocatalysts for Visible-Light-Driven Hydrogen Evolution. <i>Journal of the American Chemical Society</i> , 2015, 137, 3265-3270.	13.7	747
3	A mobile robotic chemist. <i>Nature</i> , 2020, 583, 237-241.	27.8	645
4	Current understanding and challenges of solar-driven hydrogen generation using polymeric photocatalysts. <i>Nature Energy</i> , 2019, 4, 746-760.	39.5	638
5	Visible-Light-Driven Hydrogen Evolution Using Planarized Conjugated Polymer Photocatalysts. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 1792-1796.	13.8	372
6	A stable covalent organic framework for photocatalytic carbon dioxide reduction. <i>Chemical Science</i> , 2020, 11, 543-550.	7.4	265
7	Accelerated Discovery of Organic Polymer Photocatalysts for Hydrogen Evolution from Water through the Integration of Experiment and Theory. <i>Journal of the American Chemical Society</i> , 2019, 141, 9063-9071.	13.7	264
8	Understanding structure-activity relationships in linear polymer photocatalysts for hydrogen evolution. <i>Nature Communications</i> , 2018, 9, 4968.	12.8	244
9	Reconstructed covalent organic frameworks. <i>Nature</i> , 2022, 604, 72-79.	27.8	190
10	Extended conjugated microporous polymers for photocatalytic hydrogen evolution from water. <i>Chemical Communications</i> , 2016, 52, 10008-10011.	4.1	175
11	Photocatalytic Hydrogen Evolution from Water Using Fluorene and Dibenzothiophene Sulfone-Conjugated Microporous and Linear Polymers. <i>Chemistry of Materials</i> , 2019, 31, 305-313.	6.7	173
12	Visible-Light-Driven Hydrogen Evolution Using Planarized Conjugated Polymer Photocatalysts. <i>Angewandte Chemie</i> , 2016, 128, 1824-1828.	2.0	156
13	Structure-property relationships for covalent triazine-based frameworks: The effect of spacer length on photocatalytic hydrogen evolution from water. <i>Polymer</i> , 2017, 126, 283-290.	3.8	135
14	A Solution-Processable Polymer Photocatalyst for Hydrogen Evolution from Water. <i>Advanced Energy Materials</i> , 2017, 7, 1700479.	19.5	135
15	Tracking Charge Transfer to Residual Metal Clusters in Conjugated Polymers for Photocatalytic Hydrogen Evolution. <i>Journal of the American Chemical Society</i> , 2020, 142, 14574-14587.	13.7	118
16	Structurally Diverse Covalent Triazine-Based Framework Materials for Photocatalytic Hydrogen Evolution from Water. <i>Chemistry of Materials</i> , 2019, 31, 8830-8838.	6.7	111
17	Tuning Photophysical Properties in Conjugated Microporous Polymers by Comonomer Doping Strategies. <i>Chemistry of Materials</i> , 2016, 28, 3469-3480.	6.7	106
18	Maximising the hydrogen evolution activity in organic photocatalysts by co-polymerisation. <i>Journal of Materials Chemistry A</i> , 2018, 6, 11994-12003.	10.3	93

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19	Side-chain tuning in conjugated polymer photocatalysts for improved hydrogen production from water. <i>Energy and Environmental Science</i> , 2020, 13, 1843-1855.	30.8	92
20	Conjugated Polymers of Intrinsic Microporosity (C [∞] PIMs). <i>Advanced Functional Materials</i> , 2014, 24, 5219-5224.	14.9	89
21	Nitrogen Containing Linear Poly(phenylene) Derivatives for Photo-catalytic Hydrogen Evolution from Water. <i>Chemistry of Materials</i> , 2018, 30, 5733-5742.	6.7	88
22	Emulsion polymerization derived organic photocatalysts for improved light-driven hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2019, 7, 2490-2496.	10.3	84
23	Covalent Organic Framework Nanosheets Embedding Single Cobalt Sites for Photocatalytic Reduction of Carbon Dioxide. <i>Chemistry of Materials</i> , 2020, 32, 9107-9114.	6.7	79
24	Integrated Covalent Organic Framework/Carbon Nanotube Composite as Li ⁺ Ion Positive Electrode with Ultra [∞] High Rate Performance. <i>Advanced Energy Materials</i> , 2021, 11, 2101880.	19.5	73
25	Reprogramming bacterial protein organelles as a nanoreactor for hydrogen production. <i>Nature Communications</i> , 2020, 11, 5448.	12.8	69
26	Conjugated polymer donor [∞] molecular acceptor nanohybrids for photocatalytic hydrogen evolution. <i>Chemical Communications</i> , 2020, 56, 6790-6793.	4.1	62
27	Acid catalyzed synthesis of carbonyl-functionalized microporous ladder polymers with high surface area. <i>Polymer Chemistry</i> , 2010, 1, 283.	3.9	55
28	Water Oxidation with Cobalt [∞] Loaded Linear Conjugated Polymer Photocatalysts. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 18695-18700.	13.8	55
29	Photocatalyst Z-scheme system composed of a linear conjugated polymer and BiVO ₄ for overall water splitting under visible light. <i>Journal of Materials Chemistry A</i> , 2020, 8, 16283-16290.	10.3	52
30	Organic materials as photocatalysts for water splitting. <i>Journal of Materials Chemistry A</i> , 2021, 9, 16222-16232.	10.3	50
31	Hydrogen evolution from water using heteroatom substituted fluorene conjugated co-polymers. <i>Journal of Materials Chemistry A</i> , 2020, 8, 8700-8705.	10.3	47
32	Photocatalytic proton reduction by a computationally identified, molecular hydrogen-bonded framework. <i>Journal of Materials Chemistry A</i> , 2020, 8, 7158-7170.	10.3	45
33	Structure [∞] activity relationships in well-defined conjugated oligomer photocatalysts for hydrogen production from water. <i>Chemical Science</i> , 2020, 11, 8744-8756.	7.4	41
34	Photocatalytic hydrogen production performance of 1-D ZnO nanostructures: Role of structural properties. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 31942-31951.	7.1	40
35	Photocatalytic Overall Water Splitting Under Visible Light Enabled by a Particulate Conjugated Polymer Loaded with Palladium and Iridium ^{**} . <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	40
36	Rational design of covalent organic frameworks for efficient photocatalytic hydrogen peroxide production. <i>Environmental Science: Nano</i> , 2022, 9, 2464-2469.	4.3	38

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37	Mapping binary copolymer property space with neural networks. <i>Chemical Science</i> , 2019, 10, 4973-4984.	7.4	36
38	Photocatalytic polymers of intrinsic microporosity for hydrogen production from water. <i>Journal of Materials Chemistry A</i> , 2021, 9, 19958-19964.	10.3	36
39	Photocatalytic syngas production using conjugated organic polymers. <i>Journal of Materials Chemistry A</i> , 2021, 9, 4291-4296.	10.3	33
40	Structural Elucidation of Amorphous Photocatalytic Polymers from Dynamic Nuclear Polarization Enhanced Solid State NMR. <i>Macromolecules</i> , 2018, 51, 3088-3096.	4.8	32
41	Polymer photocatalysts with plasma-enhanced activity. <i>Journal of Materials Chemistry A</i> , 2020, 8, 7125-7129.	10.3	31
42	Bottom-up wet-chemical synthesis of a two-dimensional porous carbon material with high supercapacitance using a cascade coupling/cyclization route. <i>Journal of Materials Chemistry A</i> , 2021, 9, 3303-3308.	10.3	23
43	Conjugated nanomaterials for solar fuel production. <i>Nanoscale</i> , 2021, 13, 634-646.	5.6	21
44	Photocatalytically active ladder polymers. <i>Faraday Discussions</i> , 2019, 215, 84-97.	3.2	20
45	Acetylene-linked conjugated polymers for sacrificial photocatalytic hydrogen evolution from water. <i>Journal of Materials Chemistry A</i> , 2021, 9, 17242-17248.	10.3	18
46	Triarylamine polymers of bridged phenylenes by (N-heterocyclic carbene)-palladium catalysed C–N coupling. <i>Journal of Materials Chemistry C</i> , 2013, 1, 3327.	5.5	17
47	Metal–organic conjugated microporous polymer containing a carbon dioxide reduction electrocatalyst. <i>Sustainable Energy and Fuels</i> , 2019, 3, 2990-2994.	4.9	16
48	Water Oxidation with Cobalt-Loaded Linear Conjugated Polymer Photocatalysts. <i>Angewandte Chemie</i> , 2020, 132, 18854-18859.	2.0	16
49	Nano-assemblies of a soluble conjugated organic polymer and an inorganic semiconductor for sacrificial photocatalytic hydrogen production from water. <i>Nanoscale</i> , 2020, 12, 24488-24494.	5.6	14
50	Crosslinked Polyimide and Reduced Graphene Oxide Composites as Long Cycle Life Positive Electrode for Lithium-Ion Cells. <i>ChemSusChem</i> , 2020, 13, 5571-5579.	6.8	14
51	(N-heterocyclic carbene)–Pd catalyzed synthesis of poly(triarylamine)s by Buchwald–Hartwig coupling of aryl chlorides. <i>Journal of Polymer Science Part A</i> , 2012, 50, 4155-4160.	2.3	13
52	Extended conjugation in poly(triarylamine)s: synthesis, structure and impact on field-effect mobility. <i>Journal of Materials Chemistry C</i> , 2014, 2, 6520-6528.	5.5	13
53	Synthesis of poly(triarylamine)s by C–N coupling catalyzed by (N-heterocyclic carbene)-palladium complexes. <i>Reactive and Functional Polymers</i> , 2012, 72, 337-340.	4.1	11
54	Time-Resolved Raman Spectroscopy of Polaron Formation in a Polymer Photocatalyst. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 10899-10905.	4.6	11

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55	(<i>N</i> -Heterocyclic carbene) $\text{Pd}(\text{triethylamine})\text{Cl}_2$ as precatalyst for the synthesis of Poly(triarylamine)s. <i>Journal of Polymer Science Part A</i> , 2013, 51, 4904-4911.	2.3	10
56	Organic heterojunctions for direct solar fuel generation. <i>Communications Chemistry</i> , 2020, 3, .	4.5	9
57	Aromatic polymers made by reductive polydehalogenation of oligocyclic monomers as conjugated polymers of intrinsic microporosity (C-PIMs). <i>Polymer Chemistry</i> , 2019, 10, 5200-5205.	3.9	7
58	Photocatalytic Overall Water Splitting Under Visible Light Enabled by a Particulate Conjugated Polymer Loaded with Palladium and Iridium**. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	7
59	Synthetic approaches to artificial photosynthesis: general discussion. <i>Faraday Discussions</i> , 2019, 215, 242-281.	3.2	5
60	Effect of substituting non-polar chains with polar chains on the structural dynamics of small organic molecule and polymer semiconductors. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 7462-7471.	2.8	5
61	Impact of Chemical Structure on the Dynamics of Mass Transfer of Water in Conjugated Microporous Polymers: A Neutron Spectroscopy Study. <i>ACS Applied Polymer Materials</i> , 2021, 3, 765-776.	4.4	5
62	Probing Dynamics of Water Mass Transfer in Organic Porous Photocatalyst Water-Splitting Materials by Neutron Spectroscopy. <i>Chemistry of Materials</i> , 2021, 33, 1363-1372.	6.7	5
63	Berichtigung: Visible-Light-Driven Hydrogen Evolution Using Planarized Conjugated Polymer Photocatalysts. <i>Angewandte Chemie</i> , 2018, 130, 2546-2546.	2.0	3
64	Demonstrator devices for artificial photosynthesis: general discussion. <i>Faraday Discussions</i> , 2019, 215, 345-363.	3.2	2
65	The potential scarcity, or not, of polymeric overall water splitting photocatalysts. <i>Sustainable Energy and Fuels</i> , 2022, 6, 2233-2242.	4.9	2
66	Conjugated Porphyrin Materials for Solar Fuel Generation. <i>Current Organic Chemistry</i> , 2022, 26, 596-605.	1.6	2
67	Understanding Hydrogen Evolution Activity of Linear Organic Photocatalysts. , 0, , .		0
68	Understanding Hydrogen Evolution Activity of Linear Organic Photocatalysts. , 0, , .		0