

# Bettina Lotsch

## List of Publications by Year in descending order

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232  
papers

20,931  
citations

9786

73  
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10445

139  
g-index

249  
all docs

249  
docs citations

249  
times ranked

20408  
citing authors

#	ARTICLE	IF	CITATIONS
1	A tunable azine covalent organic framework platform for visible light-induced hydrogen generation. Nature Communications, 2015, 6, 8508.	12.8	940
2	New horizons for inorganic solid state ion conductors. Energy and Environmental Science, 2018, 11, 1945-1976.	30.8	894
3	A hydrazone-based covalent organic framework for photocatalytic hydrogen production. Chemical Science, 2014, 5, 2789-2793.	7.4	847
4	Unmasking Melon by a Complementary Approach Employing Electron Diffraction, Solid-State NMR Spectroscopy, and Theoretical Calculations—Structural Characterization of a Carbon Nitride Polymer. Chemistry - A European Journal, 2007, 13, 4969-4980.	3.3	778
5	Crystalline Carbon Nitride Nanosheets for Improved Visible-Light Hydrogen Evolution. Journal of the American Chemical Society, 2014, 136, 1730-1733.	13.7	614
6	Bottom-up assembly of photonic crystals. Chemical Society Reviews, 2013, 42, 2528-2554.	38.1	606
7	Dirac cone protected by non-symmorphic symmetry and three-dimensional Dirac line node in ZrSiS. Nature Communications, 2016, 7, 11696.	12.8	591
8	Rational design of carbon nitride photocatalysts by identification of cyanamide defects as catalytically relevant sites. Nature Communications, 2016, 7, 12165.	12.8	586
9	Triazine-based Carbon Nitrides for Visible-Light-Driven Hydrogen Evolution. Angewandte Chemie - International Edition, 2013, 52, 2435-2439.	13.8	401
10	Polymer photocatalysts for solar-to-chemical energy conversion. Nature Reviews Materials, 2021, 6, 168-190.	48.7	361
11	Low-Molecular-Weight Carbon Nitrides for Solar Hydrogen Evolution. Journal of the American Chemical Society, 2015, 137, 1064-1072.	13.7	321
12	H <sub>2</sub> Evolution with Covalent Organic Framework Photocatalysts. ACS Energy Letters, 2018, 3, 400-409.	17.4	318
13	Solving the COF trilemma: towards crystalline, stable and functional covalent organic frameworks. Chemical Society Reviews, 2020, 49, 8469-8500.	38.1	315
14	Exploiting Noncovalent Interactions in an Imine-Based Covalent Organic Framework for Quercetin Delivery. Advanced Materials, 2016, 28, 8749-8754.	21.0	302
15	Single-Site Photocatalytic H <sub>2</sub> Evolution from Covalent Organic Frameworks with Molecular Cobaloxime Co-Catalysts. Journal of the American Chemical Society, 2017, 139, 16228-16234.	13.7	292
16	Solar-Driven Reduction of Aqueous Protons Coupled to Selective Alcohol Oxidation with a Carbon Nitride-Molecular Ni Catalyst System. Journal of the American Chemical Society, 2016, 138, 9183-9192.	13.7	285
17	Poly(triazine imide) with Intercalation of Lithium and Chloride Ions [(C <sub>3</sub> N <sub>3</sub> ) <sub>2</sub> (NH) <sub>3</sub> Li <sub>3</sub> ...LiCl] <sub>283</sub> A Crystalline 2D Carbon Nitride Network. Chemistry - A European Journal, 2011, 17, 3213-3221.		
18	Nanofabrication by self-assembly. Materials Today, 2009, 12, 12-23.	14.2	268

#	ARTICLE	IF	CITATIONS
19	A new ultrafast superionic Li-conductor: ion dynamics in Li <sub>11</sub> Si <sub>2</sub> PS <sub>12</sub> and comparison with other tetragonal LGPS-type electrolytes. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 14669-14674.	2.8	256
20	Sustained Solar H <sub>2</sub> Evolution from a Thiazolo[5,4- <i>d</i> ]thiazole-Bridged Covalent Organic Framework and Nickel-Thiolate Cluster in Water. <i>Journal of the American Chemical Society</i> , 2019, 141, 11082-11092.	13.7	239
21	Phenyl-triazine oligomers for light-driven hydrogen evolution. <i>Energy and Environmental Science</i> , 2015, 8, 3345-3353.	30.8	238
22	Urea-Modified Carbon Nitrides: Enhancing Photocatalytic Hydrogen Evolution by Rational Defect Engineering. <i>Advanced Energy Materials</i> , 2017, 7, 1602251.	19.5	238
23	Topochemical conversion of an imine- into a thiazole-linked covalent organic framework enabling real-time structure analysis. <i>Nature Communications</i> , 2018, 9, 2600.	12.8	232
24	Nitrogen-Rich Covalent Triazine Frameworks as High-Performance Platforms for Selective Carbon Capture and Storage. <i>Chemistry of Materials</i> , 2015, 27, 8001-8010.	6.7	228
25	New Light on an Old Story: Formation of Melam during Thermal Condensation of Melamine. <i>Chemistry - A European Journal</i> , 2007, 13, 4956-4968.	3.3	224
26	Stacking the Nanochemistry Deck: Structural and Compositional Diversity in One-Dimensional Photonic Crystals. <i>Advanced Materials</i> , 2009, 21, 1641-1646.	21.0	223
27	Tetragonal Li <sub>10</sub> GeP <sub>2</sub> S <sub>12</sub> and Li <sub>7</sub> GePS <sub>8</sub> – exploring the Li ion dynamics in LGPS Li electrolytes. <i>Energy and Environmental Science</i> , 2013, 6, 3548.	30.8	223
28	Soft Photocatalysis: Organic Polymers for Solar Fuel Production. <i>Chemistry of Materials</i> , 2016, 28, 5191-5204.	6.7	208
29	Dark Photocatalysis: Storage of Solar Energy in Carbon Nitride for Time-Delayed Hydrogen Generation. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 510-514.	13.8	204
30	From Triazines to Heptazines: Novel Nonmetal Tricyanomelaminates as Precursors for Graphitic Carbon Nitride Materials. <i>Chemistry of Materials</i> , 2006, 18, 1891-1900.	6.7	203
31	Tunable Water and CO <sub>2</sub> Sorption Properties in Isostructural Azine-Based Covalent Organic Frameworks through Polarity Engineering. <i>Chemistry of Materials</i> , 2015, 27, 7874-7881.	6.7	192
32	Butterfly magnetoresistance, quasi-2D Dirac Fermi surface and topological phase transition in ZrSiS. <i>Science Advances</i> , 2016, 2, e1601742.	10.3	182
33	Synthetic routes toward MOF nanomorphologies. <i>Journal of Materials Chemistry</i> , 2012, 22, 10119.	6.7	176
34	New Light on an Old Story: Perovskites Go Solar. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 635-637.	13.8	175
35	Ultrathin 2D Coordination Polymer Nanosheets by Surfactant-Mediated Synthesis. <i>Journal of the American Chemical Society</i> , 2013, 135, 6157-6164.	13.7	173
36	Photocatalytic Hydrogen Production using Polymeric Carbon Nitride with a Hydrogenase and a Bioinspired Synthetic Ni Catalyst. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 11538-11542.	13.8	170

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37	Chemical Principles of Topological Semimetals. Chemistry of Materials, 2018, 30, 3155-3176.	6.7	166
38	A fluorene based covalent triazine framework with high CO <sub>2</sub> and H <sub>2</sub> capture and storage capacities. Journal of Materials Chemistry A, 2014, 2, 5928-5936.	10.3	159
39	Ionothermal Synthesis of Imide-Linked Covalent Organic Frameworks. Angewandte Chemie - International Edition, 2020, 59, 15750-15758.	13.8	158
40	Vertical 2D Heterostructures. Annual Review of Materials Research, 2015, 45, 85-109.	9.3	153
41	Structural Insights into Poly(Heptazine Imides): A Light-Storing Carbon Nitride Material for Dark Photocatalysis. Chemistry of Materials, 2019, 31, 7478-7486.	6.7	151
42	Tailor-Made Photoconductive Pyrene-Based Covalent Organic Frameworks for Visible-Light Driven Hydrogen Generation. Advanced Energy Materials, 2018, 8, 1703278.	19.5	148
43	Ruthenium Oxide Nanosheets for Enhanced Oxygen Evolution Catalysis in Acidic Medium. Advanced Energy Materials, 2019, 9, 1803795.	19.5	147
44	One-dimensional metal-organic framework photonic crystals used as platforms for vapor sorption. Journal of Materials Chemistry, 2012, 22, 10356.	6.7	144
45	Clay Bragg Stack Optical Sensors. Advanced Materials, 2008, 20, 4079-4084.	21.0	139
46	Unconventional mass enhancement around the Dirac nodal loop in ZrSiS. Nature Physics, 2018, 14, 178-183.	16.7	129
47	Rational strain engineering in delafossite oxides for highly efficient hydrogen evolution catalysis in acidic media. Nature Catalysis, 2020, 3, 55-63.	34.4	124
48	Rational Design of Covalent Cobaloxime-Covalent Organic Framework Hybrids for Enhanced Photocatalytic Hydrogen Evolution. Journal of the American Chemical Society, 2020, 142, 12146-12156.	13.7	123
49	Single-crystal X-ray structure analysis of the superionic conductor Li <sub>10</sub> GeP <sub>2</sub> S <sub>12</sub> . Physical Chemistry Chemical Physics, 2013, 15, 11620.	2.8	121
50	A functional triazine framework based on N-heterocyclic building blocks. Journal of Materials Chemistry, 2012, 22, 13956.	6.7	118
51	Tunable Weyl and Dirac states in the nonsymmorphic compound CeSbTe. Science Advances, 2018, 4, eaar2317.	10.3	110
52	Toward an Aqueous Solar Battery: Direct Electrochemical Storage of Solar Energy in Carbon Nitrides. Advanced Materials, 2018, 30, 1705477.	21.0	110
53	Photonic Clays: A New Family of Functional 1D Photonic Crystals. ACS Nano, 2008, 2, 2065-2074.	14.6	105
54	Structure elucidation of polyheptazine imide by electron diffraction—a templated 2D carbon nitride network. Chemical Communications, 2009, , 1541.	4.1	104

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55	How Certain Are the Reported Ionic Conductivities of Thiophosphate-Based Solid Electrolytes? An Interlaboratory Study. <i>ACS Energy Letters</i> , 2020, 5, 910-915.	17.4	98
56	Structure–property–activity relationships in a pyridine containing azine-linked covalent organic framework for photocatalytic hydrogen evolution. <i>Faraday Discussions</i> , 2017, 201, 247-264.	3.2	97
57	Thermal Conversion of Guanylurea Dicyanamide into Graphitic Carbon Nitride via Prototype CN <sub>x</sub> Precursors. <i>Chemistry of Materials</i> , 2005, 17, 3976-3982.	6.7	96
58	Tuning the stacking behaviour of a 2D covalent organic framework through non-covalent interactions. <i>Materials Chemistry Frontiers</i> , 2017, 1, 1354-1361.	5.9	95
59	Amine-Linked Covalent Organic Frameworks as a Platform for Postsynthetic Structure Interconversion and Pore-Wall Modification. <i>Journal of the American Chemical Society</i> , 2021, 143, 3430-3438.	13.7	95
60	Tandem MOF-Based Photonic Crystals for Enhanced Analyte-Specific Optical Detection. <i>Chemistry of Materials</i> , 2015, 27, 1961-1970.	6.7	94
61	Relevance of solid electrolytes for lithium-based batteries: A realistic view. <i>Journal of Electroceramics</i> , 2017, 38, 128-141.	2.0	94
62	Humidity-Enhanced Thermally Tunable TiO <sub>2</sub> /SiO <sub>2</sub> Bragg Stacks. <i>Journal of Physical Chemistry C</i> , 2012, 116, 298-305.	3.1	92
63	Magnetic Properties of Restacked 2D Spin 1/2 honeycomb RuCl <sub>3</sub> Nanosheets. <i>Nano Letters</i> , 2016, 16, 3578-3584.	9.1	89
64	Non-symmorphic band degeneracy at the Fermi level in ZrSiTe. <i>New Journal of Physics</i> , 2016, 18, 125014.	2.9	88
65	Bottom-up Formation of Carbon-Based Structures with Multilevel Hierarchy from MOF–Guest Polyhedra. <i>Journal of the American Chemical Society</i> , 2018, 140, 6130-6136.	13.7	87
66	Touchless Optical Finger Motion Tracking Based on 2D Nanosheets with Giant Moisture Responsiveness. <i>Advanced Materials</i> , 2015, 27, 6341-6348.	21.0	86
67	Vapor-Sensitive Bragg Mirrors and Optical Isotherms from Mesoporous Nanoparticle Suspensions. <i>ACS Nano</i> , 2009, 3, 1669-1676.	14.6	83
68	Sub-stoichiometric 2D covalent organic frameworks from tri- and tetratopic linkers. <i>Nature Communications</i> , 2019, 10, 2689.	12.8	83
69	How Reproducible are Surface Areas Calculated from the BET Equation?. <i>Advanced Materials</i> , 2022, 34, .	21.0	82
70	A Tour–Guide through Carbon Nitride–Land: Structure– and Dimensionality–Dependent Properties for Photo(Electro)Chemical Energy Conversion and Storage. <i>Advanced Energy Materials</i> , 2022, 12, 2101078.	19.5	81
71	Total scattering reveals the hidden stacking disorder in a 2D covalent organic framework. <i>Chemical Science</i> , 2020, 11, 12647-12654.	7.4	80
72	Organic polymers form fuel from water. <i>Nature</i> , 2015, 521, 41-42.	27.8	76

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73	Cross-Linking Bi <sub>2</sub> S <sub>3</sub> Ultrathin Nanowires: A Platform for Nanostructure Formation and Biomolecule Detection. Nano Letters, 2009, 9, 1482-1486.	9.1	75
74	Toward Fluorinated Spacers for MAPI-Derived Hybrid Perovskites: Synthesis, Characterization, and Phase Transitions of (FC <sub>2</sub> H <sub>4</sub> NH <sub>3</sub> ) <sub>2</sub> PbCl <sub>4</sub> . Chemistry of Materials, 2016, 28, 6560-6566.	6.7	74
75	IrOOH nanosheets as acid stable electrocatalysts for the oxygen evolution reaction. Journal of Materials Chemistry A, 2018, 6, 21558-21566.	10.3	72
76	Molecular Insights into Carbon Dioxide Sorption in Hydrazone-Based Covalent Organic Frameworks with Tertiary Amine Moieties. Chemistry of Materials, 2019, 31, 1946-1955.	6.7	71
77	Analyte Detection with Cu-BTC Metal-Organic Framework Thin Films by Means of Mass-Sensitive and Work-Function-Based Readout. Analytical Chemistry, 2014, 86, 6948-6958.	6.5	70
78	Temperature-dependent magnetic anisotropy in the layered magnetic semiconductors $I_3Cr$ and $I_3CrB$ .	2.4	70
79	Additive-mediated size control of MOF nanoparticles. CrystEngComm, 2013, 15, 9296.	2.6	69
80	Flat Optical Conductivity in ZrSiS due to Two-Dimensional Dirac Bands. Physical Review Letters, 2017, 119, 187401.	7.8	68
81	Facile Fabrication of Ultrathin Metal-Organic Framework-Coated Monolayer Colloidal Crystals for Highly Efficient Vapor Sensing. Chemistry of Materials, 2015, 27, 7601-7609.	6.7	67
82	Interfacial Engineering for Improved Photocatalysis in a Charge Storing 2D Carbon Nitride: Melamine Functionalized Poly(heptazine imide). Advanced Energy Materials, 2021, 11, 2003016.	19.5	64
83	Morphology Control in 2D Carbon Nitrides: Impact of Particle Size on Optoelectronic Properties and Photocatalysis. Advanced Functional Materials, 2021, 31, 2102468.	14.9	63
84	Stimuli-responsive 2D polyelectrolyte photonic crystals for optically encoded pH sensing. Chemical Communications, 2012, 48, 6169.	4.1	62
85	Spin-Split Band Hybridization in Graphene Proximitized with $\pm$ -RuCl <sub>3</sub> Nanosheets. Nano Letters, 2019, 19, 4659-4665.	9.1	62
86	Tackling the stacking disorder of melon structure elucidation in a semicrystalline material. Physical Chemistry Chemical Physics, 2010, 12, 2227.	2.8	60
87	Interlayer Interactions as Design Tool for Large-Pore COFs. Journal of the American Chemical Society, 2021, 143, 15711-15722.	13.7	60
88	Thermodynamic Equilibria in Carbon Nitride Photocatalyst Materials and Conditions for the Existence of Graphitic Carbon Nitride g-C <sub>3</sub> N <sub>4</sub> . Chemistry of Materials, 2017, 29, 4445-4453.	6.7	58
89	Lesson Learned from NMR: Characterization and Ionic Conductivity of LGPS-like Li <sub>7</sub> SiPS <sub>8</sub> . Chemistry of Materials, 2019, 31, 1280-1288.	6.7	57
90	Separation of nucleoside monophosphates using preferential anion exchange intercalation in layered double hydroxides. Solid State Sciences, 2001, 3, 883-886.	3.2	54

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91	Dark Photocatalysis: Storage of Solar Energy in Carbon Nitride for Time-Dependent Hydrogen Generation. <i>Angewandte Chemie</i> , 2017, 129, 525-529.	2.0	54
92	Lithium Charge Storage Mechanisms of Cross-Linked Triazine Networks and Their Porous Carbon Derivatives. <i>Chemistry of Materials</i> , 2015, 27, 3821-3829.	6.7	53
93	Light-driven carbon nitride microswimmers with propulsion in biological and ionic media and responsive on-demand drug delivery. <i>Science Robotics</i> , 2022, 7, eabm1421.	17.6	52
94	Carbon nitride-based light-driven microswimmers with intrinsic photocharging ability. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 24748-24756.	7.1	51
95	Conductivity Mechanism in Ionic 2D Carbon Nitrides: From Hydrated Ion Motion to Enhanced Photocatalysis. <i>Advanced Materials</i> , 2022, 34, e2107061.	21.0	49
96	Surface Floating 2D Bands in Layered Nonsymmorphic Semimetals: ZrSiS and Related Compounds. <i>Physical Review X</i> , 2017, 7, .	8.9	48
97	Proximate ferromagnetic state in the Kitaev model material $\hat{I}\pm$ -RuCl <sub>3</sub> . <i>Nature Communications</i> , 2021, 12, 4512.	12.8	47
98	Li <sub>0.6</sub> [Li <sub>0.2</sub> Sn <sub>0.8</sub> S <sub>2</sub> ] a layered lithium superionic conductor. <i>Energy and Environmental Science</i> , 2016, 9, 2578-2585.	30.8	46
99	Cationically Charged Mn <sup>II</sup> Al <sup>III</sup> LDH Nanosheets by Chemical Exfoliation and Their Use As Building Blocks in Graphene Oxide-Based Materials. <i>Langmuir</i> , 2013, 29, 9199-9207.	3.5	43
100	Photocatalytic Oxidation of Sulfinates to Vinyl Sulfones with Cyanamide-Functionalised Carbon Nitride. <i>European Journal of Organic Chemistry</i> , 2017, 2017, 2179-2185.	2.4	43
101	Scalable production of nitrogen-doped carbons for multilayer lithium-sulfur battery cells. <i>Carbon</i> , 2020, 161, 190-197.	10.3	43
102	Low-Cost Thermo-Optic Imaging Sensors: A Detection Principle Based on Tunable One-Dimensional Photonic Crystals. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 1575-1582.	8.0	41
103	Homonuclear Mixed-Valent Cobalt Imidazolate Framework for Oxygen-Evolution Electrocatalysis. <i>Chemistry - A European Journal</i> , 2016, 22, 3676-3680.	3.3	41
104	Optoelectronics Meets Optoionics: Light Storing Carbon Nitrides and Beyond. <i>Advanced Energy Materials</i> , 2021, 11, 2003049.	19.5	41
105	Understanding disorder and linker deficiency in porphyrinic zirconium-based metal-organic frameworks by resolving the Zr <sub>8</sub> O <sub>6</sub> cluster conundrum in PCN-221. <i>Nature Communications</i> , 2021, 12, 3099.	12.8	41
106	Biogenic metal-organic frameworks: 2,5-Furandicarboxylic acid as versatile building block. <i>Microporous and Mesoporous Materials</i> , 2013, 181, 217-221.	4.4	40
107	Lithium Tin Sulfide a High-Refractive-Index 2D Material for Humidity-Responsive Photonic Crystals. <i>Advanced Functional Materials</i> , 2018, 28, 1705740.	14.9	40
108	Towards novel C-N materials: crystal structures of two polymorphs of guanidinium dicyanamide and their thermal conversion into melamine. <i>New Journal of Chemistry</i> , 2004, 28, 1129-1136.	2.8	39

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109	Near-atomic-scale observation of grain boundaries in a layer-stacked two-dimensional polymer. <i>Science Advances</i> , 2020, 6, eabb5976.	10.3	39
110	Characterization of the Thermally Induced Topochemical Solid-State Transformation of $\text{NH}_4[\text{N}(\text{CN})_2]$ into $\text{NCNC}(\text{NH}_2)_2$ by Means of X-ray and Neutron Diffraction as Well as Raman and Solid-State NMR Spectroscopy. <i>Inorganic Chemistry</i> , 2004, 43, 895-904.	4.0	38
111	Photocatalytic Hydrogen Production using Polymeric Carbon Nitride with a Hydrogenase and a Bioinspired Synthetic Ni Catalyst. <i>Angewandte Chemie</i> , 2014, 126, 11722-11726.	2.0	38
112	A facile wet chemistry approach towards unilamellar tin sulfide nanosheets from $\text{Li}_4\text{Sn}_2\text{S}_2$ solid solutions. <i>Journal of Materials Chemistry A</i> , 2014, 2, 6100-6106.	10.3	38
113	Towards the Nanosheet-Based Photonic Nose: Vapor Recognition and Trace Water Sensing with Antimony Phosphate Thin Film Devices. <i>Advanced Materials</i> , 2016, 28, 7436-7442.	21.0	38
114	Relaxed Current Matching Requirements in Highly Luminescent Perovskite Tandem Solar Cells and Their Fundamental Efficiency Limits. <i>ACS Energy Letters</i> , 2021, 6, 612-620.	17.4	38
115	Optical gap in herringbone and $\pi$ -stacked crystals of [1]benzothieno[3,2-b]benzothiophene and its brominated derivative. <i>CrystEngComm</i> , 2014, 16, 7389-7392.	2.6	37
116	Band Gap Extraction from Individual Two-Dimensional Perovskite Nanosheets Using Valence Electron Energy Loss Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2016, 120, 11170-11179.	3.1	36
117	In situ monitoring of mechanochemical covalent organic framework formation reveals templating effect of liquid additive. <i>CheM</i> , 2021, 7, 1639-1652.	11.7	36
118	Cobalt(I)-catalyzed Neutral Diels-Alder Reactions of Oxygen-functionalized Acyclic 1,3-Dienes with Alkynes. <i>Synlett</i> , 2002, 2002, 1081-1084.	1.8	35
119	Trivalent Iridium Oxides: Layered Triangular Lattice Iridate $\text{K}_{0.75}\text{Na}_{0.25}\text{IrO}_2$ and Oxyhydroxide $\text{IrOOH}$ . <i>Chemistry of Materials</i> , 2017, 29, 8338-8345.	6.7	35
120	All-Clay Photonic Crystals. <i>Journal of the American Chemical Society</i> , 2008, 130, 15252-15253.	13.7	34
121	Synthesis and Structural Characterization of the Alkali Thiophosphates $\text{Na}_2\text{P}_2\text{S}_6$ , $\text{Na}_4\text{P}_2\text{S}_6$ , $\text{K}_4\text{P}_2\text{S}_6$ , and $\text{Rb}_4\text{P}_2\text{S}_6$ . <i>Zeitschrift Für Anorganische Und Allgemeine Chemie</i> , 2014, 640, 689-692.	1.2	34
122	Fast Sodium-Ion Conductivity in Supertetrahedral Phosphidosilicates. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 6155-6160.	13.8	34
123	A Step Towards Optically Encoded Silver Release in 1D Photonic Crystals. <i>Small</i> , 2009, 5, 1498-1503.	10.0	33
124	Structural Stability Diagram of $\text{AlLn}_2\text{S}_6$ Compounds (A = Na, K, Rb, Cs; Ln =) <small>Tj ETQq0 0 0 rgBT /Overlock 10</small>	4.0	33
125	Similar ultrafast dynamics of several dissimilar Dirac and Weyl semimetals. <i>Journal of Applied Physics</i> , 2017, 122, .	2.5	33
126	Improving analyte selectivity by post-assembly modification of metal-organic framework based photonic crystal sensors. <i>Nanoscale Horizons</i> , 2018, 3, 383-390.	8.0	33



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127	Direct and Linker-Exchange Alcohol-Assisted Hydrothermal Synthesis of Imide-Linked Covalent Organic Frameworks. <i>Chemistry of Materials</i> , 2022, 34, 2249-2258.	6.7	33
128	Covalent Organic Framework Nanoplates Enable Solution-Processed Crystalline Nanofilms for Photoelectrochemical Hydrogen Evolution. <i>Journal of the American Chemical Society</i> , 2022, 144, 10291-10300.	13.7	33
129	Completing the Picture of 2-(Aminomethylpyridinium) Lead Hybrid Perovskites: Insights into Structure, Conductivity Behavior, and Optical Properties. <i>Chemistry of Materials</i> , 2018, 30, 6289-6297.	6.7	32
130	Artificial Solids by Design: Assembly and Electron Microscopy Study of Nanosheet-Derived Heterostructures. <i>Chemistry of Materials</i> , 2013, 25, 4892-4900.	6.7	29
131	Benzimidazolium Lead Halide Perovskites: Effects of Anion Substitution and Dimensionality on the Bandgap. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2016, 642, 1369-1376.	1.2	29
132	Fast Sodium Ion Conductivity in Supertetrahedral Phosphidosilicates. <i>Angewandte Chemie</i> , 2018, 130, 6263-6268.	2.0	29
133	On-Surface Polymerization of 1,6-Dibromo-3,8-diiodopyrene—A Comparative Study on Au(111) Versus Ag(111) by STM, XPS, and NEXAFS. <i>Journal of Physical Chemistry C</i> , 2018, 122, 5967-5977.	3.1	29
134	Investigation of structural and dynamic properties of NH <sub>4</sub> [N(CN) <sub>2</sub> ] by means of X-ray and neutron powder diffraction as well as vibrational and solid-state NMR spectroscopy. <i>Journal of Solid State Chemistry</i> , 2003, 176, 180-191.	2.9	28
135	A step towards the electrophotonic nose: integrating 1D photonic crystals with organic light-emitting diodes and photodetectors. <i>Laser and Photonics Reviews</i> , 2014, 8, 726-733.	8.7	28
136	Fluorescent Humidity Sensors Based on Photonic Resonators. <i>Advanced Optical Materials</i> , 2017, 5, 1700663.	7.3	28
137	Electrical Transport Signature of the Magnetic Fluctuation-Structure Relation in $\hat{\Gamma}_2$ -RuCl <sub>3</sub> Nanoflakes. <i>Nano Letters</i> , 2018, 18, 3203-3208.	9.1	28
138	The wetter the better. <i>Nature Chemistry</i> , 2018, 10, 1175-1177.	13.6	28
139	Towards Mesostuctured Zinc Imidazolate Frameworks. <i>Chemistry - A European Journal</i> , 2012, 18, 2143-2152.	3.3	27
140	Structure-Directing Lone Pairs: Synthesis and Structural Characterization of SnTiO <sub>3</sub> . <i>Chemistry of Materials</i> , 2018, 30, 8932-8938.	6.7	27
141	Charge Density Waves and Magnetism in Topological Semimetal Candidates GdSb <sub>x</sub> Te <sub>2-x</sub> and Gd <sub>1-x</sub> Te <sub>2</sub> . <i>Advanced Quantum Technologies</i> , 2019, 2, 1900045.	3.9	27
142	Polymorphism and Fast Potassium Ion Conduction in the T5 Supertetrahedral Phosphidosilicate KSi <sub>2</sub> P <sub>3</sub> . <i>Angewandte Chemie - International Edition</i> , 2021, 60, 13641-13646.	13.8	27
143	Chemical Stability and Ionic Conductivity of LGPS-Type Solid Electrolyte Tetra-Li <sub>7</sub> SiPS <sub>8</sub> after Solvent Treatment. <i>ACS Applied Energy Materials</i> , 2021, 4, 9932-9943.	5.1	26
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