

Bettina Lotsch

List of Publications by Year in descending order

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232
papers

20,931
citations

9775

73
h-index

10724

138
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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.	5.8	940
2	New horizons for inorganic solid state ion conductors. Energy and Environmental Science, 2018, 11, 1945-1976.	15.6	894
3	A hydrazone-based covalent organic framework for photocatalytic hydrogen production. Chemical Science, 2014, 5, 2789-2793.	3.7	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.	1.7	778
5	Crystalline Carbon Nitride Nanosheets for Improved Visible-Light Hydrogen Evolution. Journal of the American Chemical Society, 2014, 136, 1730-1733.	6.6	614
6	Bottom-up assembly of photonic crystals. Chemical Society Reviews, 2013, 42, 2528-2554.	18.7	606
7	Dirac cone protected by non-symmorphic symmetry and three-dimensional Dirac line node in ZrSiS. Nature Communications, 2016, 7, 11696.	5.8	591
8	Rational design of carbon nitride photocatalysts by identification of cyanamide defects as catalytically relevant sites. Nature Communications, 2016, 7, 12165.	5.8	586
9	Triazine-based Carbon Nitrides for Visible-Light-Driven Hydrogen Evolution. Angewandte Chemie - International Edition, 2013, 52, 2435-2439.	7.2	401
10	Polymer photocatalysts for solar-to-chemical energy conversion. Nature Reviews Materials, 2021, 6, 168-190.	23.3	361
11	Low-Molecular-Weight Carbon Nitrides for Solar Hydrogen Evolution. Journal of the American Chemical Society, 2015, 137, 1064-1072.	6.6	321
12	H ₂ Evolution with Covalent Organic Framework Photocatalysts. ACS Energy Letters, 2018, 3, 400-409.	8.8	318
13	Solving the COF trilemma: towards crystalline, stable and functional covalent organic frameworks. Chemical Society Reviews, 2020, 49, 8469-8500.	18.7	315
14	Exploiting Noncovalent Interactions in an Imine-Based Covalent Organic Framework for Quercetin Delivery. Advanced Materials, 2016, 28, 8749-8754.	11.1	302
15	Single-Site Photocatalytic H ₂ Evolution from Covalent Organic Frameworks with Molecular Cobaloxime Co-Catalysts. Journal of the American Chemical Society, 2017, 139, 16228-16234.	6.6	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.	6.6	285
17	Poly(triazine imide) with Intercalation of Lithium and Chloride Ions [(C ₃ N ₃) ₂ (NH) ₃ Li ₁ Cl ₃] ₂₈₃ : 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.	8.3	268

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19	A new ultrafast superionic Li-conductor: ion dynamics in Li ₁₁ Si ₂ PS ₁₂ and comparison with other tetragonal LGPS-type electrolytes. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 14669-14674.	1.3	256
20	Sustained Solar H ₂ 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.	6.6	239
21	Phenyl-triazine oligomers for light-driven hydrogen evolution. <i>Energy and Environmental Science</i> , 2015, 8, 3345-3353.	15.6	238
22	Urea-Modified Carbon Nitrides: Enhancing Photocatalytic Hydrogen Evolution by Rational Defect Engineering. <i>Advanced Energy Materials</i> , 2017, 7, 1602251.	10.2	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.	5.8	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.	3.2	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.	1.7	224
26	Stacking the Nanochemistry Deck: Structural and Compositional Diversity in One-Dimensional Photonic Crystals. <i>Advanced Materials</i> , 2009, 21, 1641-1646.	11.1	223
27	Tetragonal Li ₁₀ GeP ₂ S ₁₂ and Li ₇ GePS ₈ – exploring the Li ion dynamics in LGPS Li electrolytes. <i>Energy and Environmental Science</i> , 2013, 6, 3548.	15.6	223
28	Soft Photocatalysis: Organic Polymers for Solar Fuel Production. <i>Chemistry of Materials</i> , 2016, 28, 5191-5204.	3.2	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.	7.2	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.	3.2	203
31	Tunable Water and CO ₂ Sorption Properties in Isostructural Azine-Based Covalent Organic Frameworks through Polarity Engineering. <i>Chemistry of Materials</i> , 2015, 27, 7874-7881.	3.2	192
32	Butterfly magnetoresistance, quasi-2D Dirac Fermi surface and topological phase transition in ZrSiS. <i>Science Advances</i> , 2016, 2, e1601742.	4.7	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.	7.2	175
35	Ultrathin 2D Coordination Polymer Nanosheets by Surfactant-Mediated Synthesis. <i>Journal of the American Chemical Society</i> , 2013, 135, 6157-6164.	6.6	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.	7.2	170

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37	Chemical Principles of Topological Semimetals. <i>Chemistry of Materials</i> , 2018, 30, 3155-3176.	3.2	166
38	A fluorene based covalent triazine framework with high CO ₂ and H ₂ capture and storage capacities. <i>Journal of Materials Chemistry A</i> , 2014, 2, 5928-5936.	5.2	159
39	Ionothermal Synthesis of Imide-Linked Covalent Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 15750-15758.	7.2	158
40	Vertical 2D Heterostructures. <i>Annual Review of Materials Research</i> , 2015, 45, 85-109.	4.3	153
41	Structural Insights into Poly(Heptazine Imides): A Light-Storing Carbon Nitride Material for Dark Photocatalysis. <i>Chemistry of Materials</i> , 2019, 31, 7478-7486.	3.2	151
42	Tailor-Made Photoconductive Pyrene-Based Covalent Organic Frameworks for Visible-Light Driven Hydrogen Generation. <i>Advanced Energy Materials</i> , 2018, 8, 1703278.	10.2	148
43	Ruthenium Oxide Nanosheets for Enhanced Oxygen Evolution Catalysis in Acidic Medium. <i>Advanced Energy Materials</i> , 2019, 9, 1803795.	10.2	147
44	One-dimensional metal-organic framework photonic crystals used as platforms for vapor sorption. <i>Journal of Materials Chemistry</i> , 2012, 22, 10356.	6.7	144
45	Clay Bragg Stack Optical Sensors. <i>Advanced Materials</i> , 2008, 20, 4079-4084.	11.1	139
46	Unconventional mass enhancement around the Dirac nodal loop in ZrSiS. <i>Nature Physics</i> , 2018, 14, 178-183.	6.5	129
47	Rational strain engineering in delafossite oxides for highly efficient hydrogen evolution catalysis in acidic media. <i>Nature Catalysis</i> , 2020, 3, 55-63.	16.1	124
48	Rational Design of Covalent Cobaloxime-Covalent Organic Framework Hybrids for Enhanced Photocatalytic Hydrogen Evolution. <i>Journal of the American Chemical Society</i> , 2020, 142, 12146-12156.	6.6	123
49	Single-crystal X-ray structure analysis of the superionic conductor Li ₁₀ GeP ₂ S ₁₂ . <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 11620.	1.3	121
50	A functional triazine framework based on N-heterocyclic building blocks. <i>Journal of Materials Chemistry</i> , 2012, 22, 13956.	6.7	118
51	Tunable Weyl and Dirac states in the nonsymmorphic compound CeSbTe. <i>Science Advances</i> , 2018, 4, eaar2317.	4.7	110
52	Toward an Aqueous Solar Battery: Direct Electrochemical Storage of Solar Energy in Carbon Nitrides. <i>Advanced Materials</i> , 2018, 30, 1705477.	11.1	110
53	Photonic Clays: A New Family of Functional 1D Photonic Crystals. <i>ACS Nano</i> , 2008, 2, 2065-2074.	7.3	105
54	Structure elucidation of polyheptazine imide by electron diffraction—a templated 2D carbon nitride network. <i>Chemical Communications</i> , 2009, , 1541.	2.2	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.	8.8	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.	1.6	97
57	Thermal Conversion of Guanylurea Dicyanamide into Graphitic Carbon Nitride via Prototype CN _x Precursors. <i>Chemistry of Materials</i> , 2005, 17, 3976-3982.	3.2	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.	3.2	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.	6.6	95
60	Tandem MOF-Based Photonic Crystals for Enhanced Analyte-Specific Optical Detection. <i>Chemistry of Materials</i> , 2015, 27, 1961-1970.	3.2	94
61	Relevance of solid electrolytes for lithium-based batteries: A realistic view. <i>Journal of Electroceramics</i> , 2017, 38, 128-141.	0.8	94
62	Humidity-Enhanced Thermally Tunable TiO ₂ /SiO ₂ Bragg Stacks. <i>Journal of Physical Chemistry C</i> , 2012, 116, 298-305.	1.5	92
63	Magnetic Properties of Restacked 2D Spin 1/2 honeycomb RuCl ₃ Nanosheets. <i>Nano Letters</i> , 2016, 16, 3578-3584.	4.5	89
64	Non-symmorphic band degeneracy at the Fermi level in ZrSiTe. <i>New Journal of Physics</i> , 2016, 18, 125014.	1.2	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.	6.6	87
66	Touchless Optical Finger Motion Tracking Based on 2D Nanosheets with Giant Moisture Responsiveness. <i>Advanced Materials</i> , 2015, 27, 6341-6348.	11.1	86
67	Vapor-Sensitive Bragg Mirrors and Optical Isotherms from Mesoporous Nanoparticle Suspensions. <i>ACS Nano</i> , 2009, 3, 1669-1676.	7.3	83
68	Sub-stoichiometric 2D covalent organic frameworks from tri- and tetratopic linkers. <i>Nature Communications</i> , 2019, 10, 2689.	5.8	83
69	How Reproducible are Surface Areas Calculated from the BET Equation?. <i>Advanced Materials</i> , 2022, 34, .	11.1	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.	10.2	81
71	Total scattering reveals the hidden stacking disorder in a 2D covalent organic framework. <i>Chemical Science</i> , 2020, 11, 12647-12654.	3.7	80
72	Organic polymers form fuel from water. <i>Nature</i> , 2015, 521, 41-42.	13.7	76

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73	Cross-Linking Bi ₂ S ₃ Ultrathin Nanowires: A Platform for Nanostructure Formation and Biomolecule Detection. <i>Nano Letters</i> , 2009, 9, 1482-1486.	4.5	75
74	Toward Fluorinated Spacers for MAPI-Derived Hybrid Perovskites: Synthesis, Characterization, and Phase Transitions of (FC ₂ H ₄ NH ₃) ₂ PbCl ₄ . <i>Chemistry of Materials</i> , 2016, 28, 6560-6566.	3.2	74
75	IrOOH nanosheets as acid stable electrocatalysts for the oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2018, 6, 21558-21566.	5.2	72
76	Molecular Insights into Carbon Dioxide Sorption in Hydrazone-Based Covalent Organic Frameworks with Tertiary Amine Moieties. <i>Chemistry of Materials</i> , 2019, 31, 1946-1955.	3.2	71
77	Analyte Detection with Cu-BTC Metal-Organic Framework Thin Films by Means of Mass-Sensitive and Work-Function-Based Readout. <i>Analytical Chemistry</i> , 2014, 86, 6948-6958.	3.2	70
78	Temperature-dependent magnetic anisotropy in the layered magnetic semiconductors CrI_3 and CrB_3 .	0.9	70
79	Additive-mediated size control of MOF nanoparticles. <i>CrystEngComm</i> , 2013, 15, 9296.	1.3	69
80	Flat Optical Conductivity in ZrSiS due to Two-Dimensional Dirac Bands. <i>Physical Review Letters</i> , 2017, 119, 187401.	2.9	68
81	Facile Fabrication of Ultrathin Metal-Organic Framework-Coated Monolayer Colloidal Crystals for Highly Efficient Vapor Sensing. <i>Chemistry of Materials</i> , 2015, 27, 7601-7609.	3.2	67
82	Interfacial Engineering for Improved Photocatalysis in a Charge Storing 2D Carbon Nitride: Melamine Functionalized Poly(heptazine imide). <i>Advanced Energy Materials</i> , 2021, 11, 2003016.	10.2	64
83	Morphology Control in 2D Carbon Nitrides: Impact of Particle Size on Optoelectronic Properties and Photocatalysis. <i>Advanced Functional Materials</i> , 2021, 31, 2102468.	7.8	63
84	Stimuli-responsive 2D polyelectrolyte photonic crystals for optically encoded pH sensing. <i>Chemical Communications</i> , 2012, 48, 6169.	2.2	62
85	Spin-Split Band Hybridization in Graphene Proximitized with \pm -RuCl ₃ Nanosheets. <i>Nano Letters</i> , 2019, 19, 4659-4665.	4.5	62
86	Tackling the stacking disorder of melon structure elucidation in a semicrystalline material. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 2227.	1.3	60
87	Interlayer Interactions as Design Tool for Large-Pore COFs. <i>Journal of the American Chemical Society</i> , 2021, 143, 15711-15722.	6.6	60
88	Thermodynamic Equilibria in Carbon Nitride Photocatalyst Materials and Conditions for the Existence of Graphitic Carbon Nitride g-C ₃ N ₄ . <i>Chemistry of Materials</i> , 2017, 29, 4445-4453.	3.2	58
89	Lesson Learned from NMR: Characterization and Ionic Conductivity of LGPS-like Li ₇ SiPS ₈ . <i>Chemistry of Materials</i> , 2019, 31, 1280-1288.	3.2	57
90	Separation of nucleoside monophosphates using preferential anion exchange intercalation in layered double hydroxides. <i>Solid State Sciences</i> , 2001, 3, 883-886.	1.5	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.	1.6	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.	3.2	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.	9.9	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.	3.3	51
95	Conductivity Mechanism in Ionic 2D Carbon Nitrides: From Hydrated Ion Motion to Enhanced Photocatalysis. <i>Advanced Materials</i> , 2022, 34, e2107061.	11.1	49
96	Surface Floating 2D Bands in Layered Nonsymmorphic Semimetals: ZrSiS and Related Compounds. <i>Physical Review X</i> , 2017, 7, .	2.8	48
97	Proximate ferromagnetic state in the Kitaev model material $\hat{\pm}$ -RuCl ₃ . <i>Nature Communications</i> , 2021, 12, 4512.	5.8	47
98	Li _{0.6} [Li _{0.2} Sn _{0.8} S ₂] a layered lithium superionic conductor. <i>Energy and Environmental Science</i> , 2016, 9, 2578-2585.	15.6	46
99	Cationically Charged Mn ^{II} Al ^{III} LDH Nanosheets by Chemical Exfoliation and Their Use As Building Blocks in Graphene Oxide-Based Materials. <i>Langmuir</i> , 2013, 29, 9199-9207.	1.6	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.	1.2	43
101	Scalable production of nitrogen-doped carbons for multilayer lithium-sulfur battery cells. <i>Carbon</i> , 2020, 161, 190-197.	5.4	43
102	Low-Cost Thermo-Optic Imaging Sensors: A Detection Principle Based on Tunable One-Dimensional Photonic Crystals. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 1575-1582.	4.0	41
103	Homonuclear Mixed-Valent Cobalt Imidazolate Framework for Oxygen-Evolution Electrocatalysis. <i>Chemistry - A European Journal</i> , 2016, 22, 3676-3680.	1.7	41
104	Optoelectronics Meets Optoionics: Light Storing Carbon Nitrides and Beyond. <i>Advanced Energy Materials</i> , 2021, 11, 2003049.	10.2	41
105	Understanding disorder and linker deficiency in porphyrinic zirconium-based metal-organic frameworks by resolving the Zr ₈ O ₆ cluster conundrum in PCN-221. <i>Nature Communications</i> , 2021, 12, 3099.	5.8	41
106	Biogenic metal-organic frameworks: 2,5-Furandicarboxylic acid as versatile building block. <i>Microporous and Mesoporous Materials</i> , 2013, 181, 217-221.	2.2	40
107	Lithium Tin Sulfide a High-Refractive-Index 2D Material for Humidity-Responsive Photonic Crystals. <i>Advanced Functional Materials</i> , 2018, 28, 1705740.	7.8	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.	1.4	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.	4.7	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.	1.9	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.	1.6	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.	5.2	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.	11.1	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.	8.8	38
115	Optical gap in herringbone and π -stacked crystals of [1]benzothieno[3,2-b]benzothiophene and its brominated derivative. <i>CrystEngComm</i> , 2014, 16, 7389-7392.	1.3	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.	1.5	36
117	In situ monitoring of mechanochemical covalent organic framework formation reveals templating effect of liquid additive. <i>CheM</i> , 2021, 7, 1639-1652.	5.8	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.	1.0	35
119	Trivalent Iridium Oxides: Layered Triangular Lattice Iridate $\text{K}_{0.75}\text{Na}_{0.25}\text{IrO}_2$ and Oxyhydroxide IrOOH . <i>Chemistry of Materials</i> , 2017, 29, 8338-8345.	3.2	35
120	All-Clay Photonic Crystals. <i>Journal of the American Chemical Society</i> , 2008, 130, 15252-15253.	6.6	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 Fur Anorganische Und Allgemeine Chemie</i> , 2014, 640, 689-692.	0.6	34
122	Fast Sodium-Ion Conductivity in Supertetrahedral Phosphidosilicates. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 6155-6160.	7.2	34
123	A Step Towards Optically Encoded Silver Release in 1D Photonic Crystals. <i>Small</i> , 2009, 5, 1498-1503.	5.2	33
124	Structural Stability Diagram of AlLn_2S_6 Compounds (A = Na, K, Rb, Cs; Ln =) <small>Tj ETQq0 0,0 rgt /Overlock 10</small>	1.9	33
125	Similar ultrafast dynamics of several dissimilar Dirac and Weyl semimetals. <i>Journal of Applied Physics</i> , 2017, 122, .	1.1	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.	4.1	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.	3.2	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.	6.6	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.	3.2	32
130	Artificial Solids by Design: Assembly and Electron Microscopy Study of Nanosheet-Derived Heterostructures. <i>Chemistry of Materials</i> , 2013, 25, 4892-4900.	3.2	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.	0.6	29
132	Fast Sodium-Ion Conductivity in Supertetrahedral Phosphidosilicates. <i>Angewandte Chemie</i> , 2018, 130, 6263-6268.	1.6	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.	1.5	29
134	Investigation of structural and dynamic properties of NH ₄ [N(CN) ₂] 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.	1.4	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.	4.4	28
136	Fluorescent Humidity Sensors Based on Photonic Resonators. <i>Advanced Optical Materials</i> , 2017, 5, 1700663.	3.6	28
137	Electrical Transport Signature of the Magnetic Fluctuation-Structure Relation in $\hat{\Gamma}_2$ -RuCl ₃ Nanoflakes. <i>Nano Letters</i> , 2018, 18, 3203-3208.	4.5	28
138	The wetter the better. <i>Nature Chemistry</i> , 2018, 10, 1175-1177.	6.6	28
139	Towards Mesoporous Zinc Imidazolate Frameworks. <i>Chemistry - A European Journal</i> , 2012, 18, 2143-2152.	1.7	27
140	Structure-Directing Lone Pairs: Synthesis and Structural Characterization of SnTiO ₃ . <i>Chemistry of Materials</i> , 2018, 30, 8932-8938.	3.2	27
141	Charge Density Waves and Magnetism in Topological Semimetal Candidates GdSb _x Te _{2-x} and Gd _{1-x} Te ₂ . <i>Advanced Quantum Technologies</i> , 2019, 2, 1900045.	1.8	27
142	Polymorphism and Fast Potassium-Ion Conduction in the T5 Supertetrahedral Phosphidosilicate KSi ₂ P ₃ . <i>Angewandte Chemie - International Edition</i> , 2021, 60, 13641-13646.	7.2	27
143	Chemical Stability and Ionic Conductivity of LGPS-Type Solid Electrolyte Tetra-Li ₇ SiP ₈ after Solvent Treatment. <i>ACS Applied Energy Materials</i> , 2021, 4, 9932-9943.	2.5	26
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