Bettina Lotsch

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62 14,875 118 224 h-index g-index citations papers 17,851 11.2 7.14 249 L-index ext. citations avg, IF ext. papers

| # | Paper | IF | Citations |
|-----|---|----------------|-----------|
| 224 | A tunable azine covalent organic framework platform for visible light-induced hydrogen generation. <i>Nature Communications</i> , 2015 , 6, 8508 | 17.4 | 702 |
| 223 | Unmasking melon by a complementary approach employing electron diffraction, solid-state NMR spectroscopy, and theoretical calculations-structural characterization of a carbon nitride polymer. <i>Chemistry - A European Journal</i> , 2007 , 13, 4969-80 | 4.8 | 638 |
| 222 | A hydrazone-based covalent organic framework for photocatalytic hydrogen production. <i>Chemical Science</i> , 2014 , 5, 2789-2793 | 9.4 | 615 |
| 221 | New horizons for inorganic solid state ion conductors. <i>Energy and Environmental Science</i> , 2018 , 11, 1945 | - 19 76 | 601 |
| 220 | Bottom-up assembly of photonic crystals. <i>Chemical Society Reviews</i> , 2013 , 42, 2528-54 | 58.5 | 515 |
| 219 | Crystalline carbon nitride nanosheets for improved visible-light hydrogen evolution. <i>Journal of the American Chemical Society</i> , 2014 , 136, 1730-3 | 16.4 | 509 |
| 218 | Dirac cone protected by non-symmorphic symmetry and three-dimensional Dirac line node in ZrSiS. <i>Nature Communications</i> , 2016 , 7, 11696 | 17.4 | 423 |
| 217 | Rational design of carbon nitride photocatalysts by identification of cyanamide defects as catalytically relevant sites. <i>Nature Communications</i> , 2016 , 7, 12165 | 17.4 | 417 |
| 216 | Triazine-based carbon nitrides for visible-light-driven hydrogen evolution. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 2435-9 | 16.4 | 332 |
| 215 | Low-molecular-weight carbon nitrides for solar hydrogen evolution. <i>Journal of the American Chemical Society</i> , 2015 , 137, 1064-72 | 16.4 | 267 |
| 214 | Nanofabrication by self-assembly. <i>Materials Today</i> , 2009 , 12, 12-23 | 21.8 | 239 |
| 213 | Poly(triazine imide) with intercalation of lithium and chloride ions [(C3N3)2(NH(x)Li(1-x))3?LiCl]: a crystalline 2D carbon nitride network. <i>Chemistry - A European Journal</i> , 2011 , 17, 3213-21 | 4.8 | 233 |
| 212 | Exploiting Noncovalent Interactions in an Imine-Based Covalent Organic Framework for Quercetin Delivery. <i>Advanced Materials</i> , 2016 , 28, 8749-8754 | 24 | 224 |
| 211 | Solar-Driven Reduction of Aqueous Protons Coupled to Selective Alcohol Oxidation with a Carbon Nitride-Molecular Ni Catalyst System. <i>Journal of the American Chemical Society</i> , 2016 , 138, 9183-92 | 16.4 | 210 |
| 210 | H Evolution with Covalent Organic Framework Photocatalysts. ACS Energy Letters, 2018, 3, 400-409 | 20.1 | 208 |
| 209 | A new ultrafast superionic Li-conductor: ion dynamics in Li11Si2PS12 and comparison with other tetragonal LGPS-type electrolytes. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 14669-74 | 3.6 | 197 |
| 208 | Single-Site Photocatalytic H Evolution from Covalent Organic Frameworks with Molecular Cobaloxime Co-Catalysts. <i>Journal of the American Chemical Society</i> , 2017 , 139, 16228-16234 | 16.4 | 195 |

(2015-2007)

| 207 | New light on an old story: formation of melam during thermal condensation of melamine. <i>Chemistry - A European Journal</i> , 2007 , 13, 4956-68 | 4.8 | 191 |
|-----|---|---------------------|-----|
| 206 | Phenyl-triazine oligomers for light-driven hydrogen evolution. <i>Energy and Environmental Science</i> , 2015 , 8, 3345-3353 | 35.4 | 190 |
| 205 | Nitrogen-Rich Covalent Triazine Frameworks as High-Performance Platforms for Selective Carbon Capture and Storage. <i>Chemistry of Materials</i> , 2015 , 27, 8001-8010 | 9.6 | 183 |
| 204 | From Triazines to Heptazines: Novel Nonmetal Tricyanomelaminates as Precursors for Graphitic Carbon Nitride Materials. <i>Chemistry of Materials</i> , 2006 , 18, 1891-1900 | 9.6 | 181 |
| 203 | Tetragonal Li10GeP2S12 and Li7GePS8 Lexploring the Li ion dynamics in LGPS Li electrolytes. <i>Energy and Environmental Science</i> , 2013 , 6, 3548 | 35.4 | 176 |
| 202 | Soft Photocatalysis: Organic Polymers for Solar Fuel Production. <i>Chemistry of Materials</i> , 2016 , 28, 5191 | -5 3.6 4 | 175 |
| 201 | Urea-Modified Carbon Nitrides: Enhancing Photocatalytic Hydrogen Evolution by Rational Defect Engineering. <i>Advanced Energy Materials</i> , 2017 , 7, 1602251 | 21.8 | 174 |
| 200 | Synthetic routes toward MOF nanomorphologies. <i>Journal of Materials Chemistry</i> , 2012 , 22, 10119 | | 153 |
| 199 | New light on an old story: perovskites go solar. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 63 | 5 1 76.4 | 151 |
| 198 | Photocatalytic hydrogen production using polymeric carbon nitride with a hydrogenase and a bioinspired synthetic Ni catalyst. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 11538-42 | 16.4 | 151 |
| 197 | Ultrathin 2D coordination polymer nanosheets by surfactant-mediated synthesis. <i>Journal of the American Chemical Society</i> , 2013 , 135, 6157-64 | 16.4 | 151 |
| 196 | Dark Photocatalysis: Storage of Solar Energy in Carbon Nitride for Time-Delayed Hydrogen Generation. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 510-514 | 16.4 | 143 |
| 195 | Topochemical conversion of an imine- into a thiazole-linked covalent organic framework enabling realstructure analysis. <i>Nature Communications</i> , 2018 , 9, 2600 | 17.4 | 138 |
| 194 | A fluorene based covalent triazine framework with high CO2 and H2 capture and storage capacities. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 5928-5936 | 13 | 138 |
| 193 | Sustained Solar H Evolution from a Thiazolo[5,4-]thiazole-Bridged Covalent Organic Framework and Nickel-Thiolate Cluster in Water. <i>Journal of the American Chemical Society</i> , 2019 , 141, 11082-11092 | 16.4 | 137 |
| 192 | Tunable Water and CO2 Sorption Properties in Isostructural Azine-Based Covalent Organic Frameworks through Polarity Engineering. <i>Chemistry of Materials</i> , 2015 , 27, 7874-7881 | 9.6 | 136 |
| 191 | Clay Bragg Stack Optical Sensors. <i>Advanced Materials</i> , 2008 , 20, 4079-4084 | 24 | 132 |
| 190 | Vertical 2D Heterostructures. <i>Annual Review of Materials Research</i> , 2015 , 45, 85-109 | 12.8 | 127 |

| 189 | Butterfly magnetoresistance, quasi-2D Dirac Fermi surface and topological phase transition in ZrSiS. <i>Science Advances</i> , 2016 , 2, e1601742 | 14.3 | 124 |
|-----|--|----------------|-----|
| 188 | One-dimensional metalBrganic framework photonic crystals used as platforms for vapor sorption. Journal of Materials Chemistry, 2012 , 22, 10356 | | 123 |
| 187 | Polymer photocatalysts for solar-to-chemical energy conversion. <i>Nature Reviews Materials</i> , 2021 , 6, 168 | - 79 .0 | 116 |
| 186 | Tailor-Made Photoconductive Pyrene-Based Covalent Organic Frameworks for Visible-Light Driven Hydrogen Generation. <i>Advanced Energy Materials</i> , 2018 , 8, 1703278 | 21.8 | 100 |
| 185 | Single-crystal X-ray structure analysis of the superionic conductor Li10GeP2S12. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 11620-2 | 3.6 | 99 |
| 184 | Solving the COF trilemma: towards crystalline, stable and functional covalent organic frameworks. <i>Chemical Society Reviews</i> , 2020 , 49, 8469-8500 | 58.5 | 98 |
| 183 | Ruthenium Oxide Nanosheets for Enhanced Oxygen Evolution Catalysis in Acidic Medium. <i>Advanced Energy Materials</i> , 2019 , 9, 1803795 | 21.8 | 98 |
| 182 | Chemical Principles of Topological Semimetals. <i>Chemistry of Materials</i> , 2018 , 30, 3155-3176 | 9.6 | 96 |
| 181 | Photonic clays: a new family of functional 1D photonic crystals. ACS Nano, 2008, 2, 2065-74 | 16.7 | 96 |
| 180 | A functional triazine framework based on N-heterocyclic building blocks. <i>Journal of Materials Chemistry</i> , 2012 , 22, 13956 | | 95 |
| 179 | Thermal Conversion of Guanylurea Dicyanamide into Graphitic Carbon Nitride via Prototype CNx Precursors. <i>Chemistry of Materials</i> , 2005 , 17, 3976-3982 | 9.6 | 89 |
| 178 | Structure elucidation of polyheptazine imide by electron diffractiona templated 2D carbon nitride network. <i>Chemical Communications</i> , 2009 , 1541-3 | 5.8 | 88 |
| 177 | Unconventional mass enhancement around the Dirac nodal loop in ZrSiS. <i>Nature Physics</i> , 2018 , 14, 178-1 | 1 88 .2 | 85 |
| 176 | Toward an Aqueous Solar Battery: Direct Electrochemical Storage of Solar Energy in Carbon Nitrides. <i>Advanced Materials</i> , 2018 , 30, 1705477 | 24 | 79 |
| 175 | Vapor-sensitive bragg mirrors and optical isotherms from mesoporous nanoparticle suspensions. <i>ACS Nano</i> , 2009 , 3, 1669-76 | 16.7 | 77 |
| 174 | Humidity-Enhanced Thermally Tunable TiO2/SiO2 Bragg Stacks. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 298-305 | 3.8 | 76 |
| 173 | Tandem MOF-Based Photonic Crystals for Enhanced Analyte-Specific Optical Detection. <i>Chemistry of Materials</i> , 2015 , 27, 1961-1970 | 9.6 | 75 |
| 172 | Structural Insights into Poly(Heptazine Imides): A Light-Storing Carbon Nitride Material for Dark Photocatalysis. <i>Chemistry of Materials</i> , 2019 , 31, 7478-7486 | 9.6 | 75 |

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| 171 | Cross-linking Bi2S3 ultrathin nanowires: a platform for nanostructure formation and biomolecule detection. <i>Nano Letters</i> , 2009 , 9, 1482-6 | 11.5 | 73 |
|-----|--|-------|----|
| 170 | Relevance of solid electrolytes for lithium-based batteries: A realistic view. <i>Journal of Electroceramics</i> , 2017 , 38, 128-141 | 1.5 | 71 |
| 169 | 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 | 3.6 | 70 |
| 168 | Touchless Optical Finger Motion Tracking Based on 2D Nanosheets with Giant Moisture Responsiveness. <i>Advanced Materials</i> , 2015 , 27, 6341-8 | 24 | 70 |
| 167 | Rational strain engineering in delafossite oxides for highly efficient hydrogen evolution catalysis in acidic media. <i>Nature Catalysis</i> , 2020 , 3, 55-63 | 36.5 | 70 |
| 166 | Magnetic Properties of Restacked 2D Spin 1/2 honeycomb RuCl3 Nanosheets. <i>Nano Letters</i> , 2016 , 16, 3578-84 | 11.5 | 67 |
| 165 | Non-symmorphic band degeneracy at the Fermi level in ZrSiTe. <i>New Journal of Physics</i> , 2016 , 18, 125014 | 12.9 | 65 |
| 164 | Tuning the stacking behaviour of a 2D covalent organic framework through non-covalent interactions. <i>Materials Chemistry Frontiers</i> , 2017 , 1, 1354-1361 | 7.8 | 63 |
| 163 | Materials chemistry: Organic polymers form fuel from water. <i>Nature</i> , 2015 , 521, 41-2 | 50.4 | 62 |
| 162 | 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 | 16.4 | 62 |
| 161 | Triazine-based Carbon Nitrides for Visible-Light-Driven Hydrogen Evolution. <i>Angewandte Chemie</i> , 2013 , 125, 2495-2499 | 3.6 | 62 |
| 160 | Tunable Weyl and Dirac states in the nonsymmorphic compound CeSbTe. Science Advances, 2018, 4, eaa | г2д37 | 61 |
| 159 | How Certain Are the Reported Ionic Conductivities of Thiophosphate-Based Solid Electrolytes? An Interlaboratory Study. <i>ACS Energy Letters</i> , 2020 , 5, 910-915 | 20.1 | 60 |
| 158 | Additive-mediated size control of MOF nanoparticles. <i>CrystEngComm</i> , 2013 , 15, 9296 | 3.3 | 58 |
| 157 | Ionothermal Synthesis of Imide-Linked Covalent Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 15750-15758 | 16.4 | 57 |
| 156 | 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 | 16.4 | 57 |
| 155 | Toward Fluorinated Spacers for MAPI-Derived Hybrid Perovskites: Synthesis, Characterization, and Phase Transitions of (FC2H4NH3)2PbCl4. <i>Chemistry of Materials</i> , 2016 , 28, 6560-6566 | 9.6 | 56 |
| 154 | Tackling the stacking disorder of melonstructure elucidation in a semicrystalline material. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 2227-37 | 3.6 | 55 |

| 153 | Facile Fabrication of Ultrathin Metal®rganic Framework-Coated Monolayer Colloidal Crystals for Highly Efficient Vapor Sensing. <i>Chemistry of Materials</i> , 2015 , 27, 7601-7609 | 9.6 | 54 |
|-----|---|------|----|
| 152 | 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, 6948-58 | 7.8 | 54 |
| 151 | Stimuli-responsive 2D polyelectrolyte photonic crystals for optically encoded pH sensing. <i>Chemical Communications</i> , 2012 , 48, 6169-71 | 5.8 | 52 |
| 150 | Temperature-dependent magnetic anisotropy in the layered magnetic semiconductors CrI3 and CrBr3. <i>Physical Review Materials</i> , 2018 , 2, | 3.2 | 49 |
| 149 | Separation of nucleoside monophosphates using preferential anion exchange intercalation in layered double hydroxides. <i>Solid State Sciences</i> , 2001 , 3, 883-886 | 3.4 | 47 |
| 148 | Flat Optical Conductivity in ZrSiS due to Two-Dimensional Dirac Bands. <i>Physical Review Letters</i> , 2017 , 119, 187401 | 7.4 | 45 |
| 147 | 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 | 9.6 | 44 |
| 146 | IrOOH nanosheets as acid stable electrocatalysts for the oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 21558-21566 | 13 | 43 |
| 145 | Lithium Charge Storage Mechanisms of Cross-Linked Triazine Networks and Their Porous Carbon Derivatives. <i>Chemistry of Materials</i> , 2015 , 27, 3821-3829 | 9.6 | 42 |
| 144 | Lesson Learned from NMR: Characterization and Ionic Conductivity of LGPS-like Li7SiPS8. <i>Chemistry of Materials</i> , 2019 , 31, 1280-1288 | 9.6 | 40 |
| 143 | Sub-stoichiometric 2D covalent organic frameworks from tri- and tetratopic linkers. <i>Nature Communications</i> , 2019 , 10, 2689 | 17.4 | 40 |
| 142 | Photocatalytic Oxidation of Sulfinates to Vinyl Sulfones with Cyanamide-Functionalised Carbon Nitride. <i>European Journal of Organic Chemistry</i> , 2017 , 2017, 2179-2185 | 3.2 | 39 |
| 141 | Li0.6[Li0.2Sn0.8S2] 🗈 layered lithium superionic conductor. <i>Energy and Environmental Science</i> , 2016 , 9, 2578-2585 | 35.4 | 39 |
| 140 | Thermodynamic Equilibria in Carbon Nitride Photocatalyst Materials and Conditions for the Existence of Graphitic Carbon Nitride g-C3N4. <i>Chemistry of Materials</i> , 2017 , 29, 4445-4453 | 9.6 | 38 |
| 139 | Photocatalytic Hydrogen Production using Polymeric Carbon Nitride with a Hydrogenase and a Bioinspired Synthetic Ni Catalyst. <i>Angewandte Chemie</i> , 2014 , 126, 11722-11726 | 3.6 | 38 |
| 138 | Total scattering reveals the hidden stacking disorder in a 2D covalent organic framework. <i>Chemical Science</i> , 2020 , 11, 12647-12654 | 9.4 | 37 |
| 137 | Characterization of the thermally induced topochemical solid-state transformation of NH4[N(CN)2] into NCN[double bond]C(NH2)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 | 5.1 | 37 |
| 136 | Towards novel CN 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 | 3.6 | 36 |

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| Low-cost thermo-optic imaging sensors: a detection principle based on tunable one-dimensional photonic crystals. <i>ACS Applied Materials & Distriction</i> , Interfaces, 2013 , 5, 1575-82 | 9.5 | 35 |
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| 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, 9199-207 | 4 | 34 |
| Towards the Nanosheet-Based Photonic Nose: Vapor Recognition and Trace Water Sensing with Antimony Phosphate Thin Film Devices. <i>Advanced Materials</i> , 2016 , 28, 7436-42 | 24 | 34 |
| Homonuclear Mixed-Valent Cobalt Imidazolate Framework for Oxygen-Evolution Electrocatalysis. <i>Chemistry - A European Journal</i> , 2016 , 22, 3676-80 | 4.8 | 33 |
| A facile wet chemistry approach towards unilamellar tin sulfide nanosheets from Li4xSn1\(\text{NS} 2 \) solid solutions. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 6100-6106 | 13 | 32 |
| Cobalt(I)-catalyzed Neutral Diels-Alder Reactions of Oxygen-functionalized Acyclic 1,3-Dienes with Alkynes. <i>Synlett</i> , 2002 , 2002, 1081-1084 | 2.2 | 32 |
| Lithium Tin Sulfidell High-Refractive-Index 2D Material for Humidity-Responsive Photonic Crystals. <i>Advanced Functional Materials</i> , 2018 , 28, 1705740 | 15.6 | 31 |
| Surface Floating 2D Bands in Layered Nonsymmorphic Semimetals: ZrSiS and Related Compounds. <i>Physical Review X</i> , 2017 , 7, | 9.1 | 31 |
| A step towards optically encoded silver release in 1D photonic crystals. Small, 2009, 5, 1498-503 | 11 | 31 |
| All-clay photonic crystals. <i>Journal of the American Chemical Society</i> , 2008 , 130, 15252-3 | 16.4 | 31 |
| Dark Photocatalysis: Storage of Solar Energy in Carbon Nitride for Time-Delayed Hydrogen Generation. <i>Angewandte Chemie</i> , 2017 , 129, 525-529 | 3.6 | 30 |
| Optical gap in herringbone and Estacked crystals of [1]benzothieno[3,2-b]benzothiophene and its brominated derivative. <i>CrystEngComm</i> , 2014 , 16, 7389-7392 | 3.3 | 30 |
| Biogenic metal B rganic frameworks: 2,5-Furandicarboxylic acid as versatile building block. <i>Microporous and Mesoporous Materials</i> , 2013 , 181, 217-221 | 5.3 | 30 |
| Spin-Split Band Hybridization in Graphene Proximitized with ⊞uCl Nanosheets. <i>Nano Letters</i> , 2019 , 19, 4659-4665 | 11.5 | 29 |
| 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 | 3.8 | 29 |
| Fast Sodium-Ion Conductivity in Supertetrahedral Phosphidosilicates. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 6155-6160 | 16.4 | 28 |
| Investigation of structural and dynamic properties of NH4[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 | 3.3 | 28 |
| Scalable production of nitrogen-doped carbons for multilayer lithium-sulfur battery cells. <i>Carbon</i> , 2020 , 161, 190-197 | 10.4 | 28 |
| | photonic crystals. ACS Applied Materials & Description of the American Science Floating 2D Bands in Layered Nonsymmorphic Semimetals: ZrSiS and Related Compounds. Physical Review X, 2017, 7, A step towards optically encoded silver release in 1D photonic crystals. Small, 2009, 5, 1498-503 All-clay photonic crystals. Journal of the American Chemical Society, 2008, 130, 15252-3 Dark Photocatalysis: Storage of Solar Energy in Carbon Nitride for Time-Delayed Hydrogen Generation. Angewandte Chemie, 2017, 129, 525-529 Doptical gap in herringbone and Btacked crystals of [1] benzothieno[3,2-b] benzothiophene and its brominated derivative. CrystEngComm, 2014, 16, 7389-7392 Biogenic metalBrganic frameworks: 2,5-Funanicarboxylic acid as versatile building block. Microporous Materials, 2013, 181, 217-221 Spin-Spilt Band Hybridization in Graphene Proximitized with FRucl Nanosheets. Nano Letters, 2019, 194, 4659-4665 Band Gap Extraction of nativity in Supertetrahedral Phosphidosilicates. Angewandte Chemie International Physical Energy Loss Spectroscopy. Journal of Physical Physical as wersatile building block. Microporous and Hybridization in Graphene Proximitized with FRucl Nanosheets. Nano Letters, 2019, 194, 4659-4665 Band Gap Extraction from Individual Two-Dimensional Perovskite Nanosheets. Nano Letters, 2019, 194, 4659-4665 Band Gap Extraction from Individual Two-Dimensional Perovskite Nanosheets. Using Valence International Edition, 2018, 57, 6155-6160 Investigation of structural and dynamic properties of NH4[N(CN)2] by means of X-ray and neutron powder diffraction as well as vibrational and solid-state NMR spectroscopy. Journal of Solid State Chemistry, 2003, 176, 180-191 Scalable production of nitrogen-doped carbons for multilayer lithium-sulfur battery cells. Carbon, 55-6160 | photonic crystals. ACS Applied Materials & Description (Control of the American Chemical Protection) (Control of the American Chemical Society, 2008, 130, 15252-3 Alf-clay photonic crystals. Journal of the American Chemical Society, 2008, 130, 15252-3 Astep towards optically encoded silver release in 1D photonic crystals. Storage of Solar Energy in Carbon Nitride for Time-Delayed Hydrogen Ceneration. Angewandte Chemie, 2017, 129, 525-529 Optical gap in herringbone and Istacked crystals of [1] benzothieno [3,2-b] benzothiophene and its brominated derivative. CrystEngComm, 2014, 1,6 7389-7392 Biogenic metalBrganic frameworks: 2,5-Furandicarboxylic acid as versatile building block. Microproves dother sound of physical rome Individual Two-Dimensional Physical Chemistry C. 2016, 120, 1170-11179 Fast Sodium-Ion Conductivity in Supertethedral Phosphidosilicates. Angewandte Chemie Into Chemistry C. 2018, 181, 217-221 Spin-Spilt Band Hybridization in Graphene Proximitized of Physical Chemistry C. 2016, 120, 11710-11179 Fast Sodium-Ion Conductivity in Supertethedral Phosphidosilicates. Angewandte Chemie International Approach of Physical Chemistry C. 2016, 120, 11710-11179 Fast Sodium-Ion Conductivity in Supertethedral Phosphidosilicates. Angewandte Chemie International Edition, 2018, 57, 6155-6160 Investigation of structural and dynamic properties of NH4[N(CN)2] by means of X-ray and neutron powder diffraction as well as wibrational and solid-state NMR spectroscopy. Journal of Solid State Chemistry, 2003, 176, 180-191 |

| 117 | Similar ultrafast dynamics of several dissimilar Dirac and Weyl semimetals. <i>Journal of Applied Physics</i> , 2017 , 122, 223102 | 2.5 | 27 |
|-----|---|-------------------|----|
| 116 | Synthesis and Structural Characterization of the Alkali Thiophosphates Na2P2S6, Na4P2S6, K4P2S6, and Rb4P2S6. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2014 , 640, 689-692 | 1.3 | 27 |
| 115 | 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 | 11.5 | 26 |
| 114 | Artificial Solids by Design: Assembly and Electron Microscopy Study of Nanosheet-Derived Heterostructures. <i>Chemistry of Materials</i> , 2013 , 25, 4892-4900 | 9.6 | 25 |
| 113 | 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 | 1.3 | 25 |
| 112 | Structural Stability Diagram of ALnPS Compounds (A = Na, K, Rb, Cs; Ln = Lanthanide). <i>Inorganic Chemistry</i> , 2017 , 56, 1121-1131 | 5.1 | 23 |
| 111 | Fluorescent Humidity Sensors Based on Photonic Resonators. Advanced Optical Materials, 2017, 5, 1700 | D 6663 | 23 |
| 110 | Towards mesostructured zinc imidazolate frameworks. <i>Chemistry - A European Journal</i> , 2012 , 18, 2143- | 52 4.8 | 23 |
| 109 | Trivalent Iridium Oxides: Layered Triangular Lattice Iridate K0.75Na0.25IrO2 and Oxyhydroxide IrOOH. <i>Chemistry of Materials</i> , 2017 , 29, 8338-8345 | 9.6 | 23 |
| 108 | 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- | 343 8 | 23 |
| 107 | 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 | 8.3 | 21 |
| 106 | Rare-earth tricyanomelaminates [NH(4)]Ln[HC(6)N(9)](2)[H(2)O](7)H(2)O (Ln=La, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy): structural investigation, solid-state NMR spectroscopy, and photoluminescence. <i>Chemistry - A European Journal</i> , 2007 , 13, 3512-24 | 4.8 | 21 |
| 105 | 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 | 21.8 | 21 |
| 104 | Bringing one-dimensional photonic crystals to a new light: an electrophotonic platform for chemical mass transport visualisation and cell monitoring. <i>Materials Horizons</i> , 2015 , 2, 299-308 | 14.4 | 20 |
| 103 | The wetter the better. <i>Nature Chemistry</i> , 2018 , 10, 1175-1177 | 17.6 | 20 |
| 102 | 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 | 20.1 | 20 |
| 101 | On-Surface Polymerization of 1,6-Dibromo-3,8-diiodpyrene Comparative Study on Au(111) Versus Ag(111) by STM, XPS, and NEXAFS. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 5967-5977 | 3.8 | 19 |
| 100 | Ein Klassiker im neuen Gewand: Perowskit-Solarzellen. <i>Angewandte Chemie</i> , 2014 , 126, 647-649 | 3.6 | 19 |

(2021-2020)

| 99 | Near-atomic-scale observation of grain boundaries in a layer-stacked two-dimensional polymer. <i>Science Advances</i> , 2020 , 6, eabb5976 | 14.3 | 18 |
|----------------------|---|--------------------------------|----------------|
| 98 | Morphology Control in 2D Carbon Nitrides: Impact of Particle Size on Optoelectronic Properties and Photocatalysis. <i>Advanced Functional Materials</i> , 2021 , 31, 2102468 | 15.6 | 18 |
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