

Maarten B J Roeffaers

List of Publications by Year in descending order

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224
all docs

224
docs citations

224
times ranked

14930
citing authors

#	ARTICLE	IF	CITATIONS
1	State of the Art and Prospects for Halide Perovskite Nanocrystals. ACS Nano, 2021, 15, 10775-10981.	7.3	705
2	Iron(III)-Based Metal-Organic Frameworks As Visible Light Photocatalysts. Journal of the American Chemical Society, 2013, 135, 14488-14491.	6.6	502
3	Interfacial synthesis of hollow metal-organic framework capsules demonstrating selective permeability. Nature Chemistry, 2011, 3, 382-387.	6.6	483
4	Thermal nonequilibrium of strained black CsPbI ₃ thin films. Science, 2019, 365, 679-684.	6.0	444
5	Spatially resolved observation of crystal-face-dependent catalysis by single turnover counting. Nature, 2006, 439, 572-575.	13.7	434
6	Solar-Driven Metal Halide Perovskite Photocatalysis: Design, Stability, and Performance. ACS Energy Letters, 2020, 5, 1107-1123.	8.8	400
7	Ambient black carbon particles reach the fetal side of human placenta. Nature Communications, 2019, 10, 3866.	5.8	383
8	It's a trap! On the nature of localised states and charge trapping in lead halide perovskites. Materials Horizons, 2020, 7, 397-410.	6.4	345
9	Degradation of Methylammonium Lead Iodide Perovskite Structures through Light and Electron Beam Driven Ion Migration. Journal of Physical Chemistry Letters, 2016, 7, 561-566.	2.1	234
10	Efficient and Selective Photocatalytic Oxidation of Benzylic Alcohols with Hybrid Organic-Inorganic Perovskite Materials. ACS Energy Letters, 2018, 3, 755-759.	8.8	222
11	Giant Electron-Phonon Coupling and Deep Conduction Band Resonance in Metal Halide Double Perovskite. ACS Nano, 2018, 12, 8081-8090.	7.3	190
12	Super-Resolution Reactivity Mapping of Nanostructured Catalyst Particles. Angewandte Chemie - International Edition, 2009, 48, 9285-9289.	7.2	175
13	Photophysical Pathways in Highly Sensitive Cs ₂ AgBiBr ₆ Double-Perovskite Single-Crystal X-ray Detectors. Advanced Materials, 2018, 30, e1804450.	11.1	173
14	Characterization of Fluorescence in Heat-Treated Silver-Exchanged Zeolites. Journal of the American Chemical Society, 2009, 131, 3049-3056.	6.6	170
15	Direct Z-Scheme Heterojunction of Semicoherent FAPbBr ₃ /Bi ₂ WO ₆ Interface for Photoredox Reaction with Large Driving Force. ACS Nano, 2020, 14, 16689-16697.	7.3	167
16	Small molecule perimeter defense in entomopathogenic bacteria. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 10821-10826.	3.3	165
17	<i>p</i> -Xylene-Selective Metal-Organic Frameworks: A Case of Topology-Directed Selectivity. Journal of the American Chemical Society, 2011, 133, 18526-18529.	6.6	159
18	Tuning the energetics and tailoring the optical properties of silver clusters confined in zeolites. Nature Materials, 2016, 15, 1017-1022.	13.3	153

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19	Fluorescence micro(spectro)scopy as a tool to study catalytic materials in action. Chemical Society Reviews, 2010, 39, 4703.	18.7	150
20	Morphology of Large ZSM-5 Crystals Unraveled by Fluorescence Microscopy. Journal of the American Chemical Society, 2008, 130, 5763-5772.	6.6	147
21	Edge stabilization in reduced-dimensional perovskites. Nature Communications, 2020, 11, 170.	5.8	147
22	Single-molecule fluorescence spectroscopy in (bio)catalysis. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 12603-12609.	3.3	138
23	Hot Electron Tunneling of Metal-Insulator-COF Nanostructures for Efficient Hydrogen Production. Angewandte Chemie - International Edition, 2019, 58, 18290-18294.	7.2	138
24	Subsurface Defect Engineering in Single-Unit-Cell Bi ₂ WO ₆ Monolayers Boosts Solar-Driven Photocatalytic Performance. ACS Catalysis, 2020, 10, 1439-1443.	5.5	138
25	Origin of the bright photoluminescence of few-atom silver clusters confined in LTA zeolites. Science, 2018, 361, 686-690.	6.0	134
26	Label-Free Live-Cell Imaging of Nucleic Acids Using Stimulated Raman Scattering Microscopy. ChemPhysChem, 2012, 13, 1054-1059.	1.0	133
27	Subdiffraction Imaging through the Selective Donut-Mode Depletion of Thermally Stable Photoswitchable Fluorophores: Numerical Analysis and Application to the Fluorescent Protein Dronpa. Journal of the American Chemical Society, 2007, 129, 16132-16141.	6.6	130
28	High-Resolution Single-Turnover Mapping Reveals Intraparticle Diffusion Limitation in Ti-MCM-41 Catalyzed Epoxidation. Angewandte Chemie - International Edition, 2010, 49, 908-911.	7.2	128
29	Three-Dimensional Visualization of Defects Formed during the Synthesis of Metal-Organic Frameworks: A Fluorescence Microscopy Study. Angewandte Chemie - International Edition, 2013, 52, 401-405.	7.2	121
30	Space- and Time-Resolved Visualization of Acid Catalysis in ZSM-5 Crystals by Fluorescence Microscopy. Angewandte Chemie - International Edition, 2007, 46, 1706-1709.	7.2	119
31	Optical Encoding of Silver Zeolite Microcarriers. Advanced Materials, 2010, 22, 957-960.	11.1	115
32	Single molecule methods for the study of catalysis: from enzymes to heterogeneous catalysts. Chemical Society Reviews, 2014, 43, 990-1006.	18.7	115
33	C(sp ³)-H Bond Activation by Perovskite Solar Photocatalyst Cell. ACS Energy Letters, 2019, 4, 203-208.	8.8	114
34	Metal-Organic Framework Single Crystals as Photoactive Matrices for the Generation of Metallic Microstructures. Advanced Materials, 2011, 23, 1788-1791.	11.1	100
35	The 2018 correlative microscopy techniques roadmap. Journal Physics D: Applied Physics, 2018, 51, 443001.	1.3	99
36	A Titanium(IV)-Based Metal-Organic Framework Featuring Defect-Rich TiO Sheets as an Oxidative Desulfurization Catalyst. Angewandte Chemie - International Edition, 2019, 58, 9160-9165.	7.2	99

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37	Photoactivation of Silver-Exchanged Zeolite...A. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 2813-2816.	7.2	95
38	Children's Urinary Environmental Carbon Load. A Novel Marker Reflecting Residential Ambient Air Pollution Exposure?. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2017, 196, 873-881.	2.5	94
39	Unravelling the Redox-catalytic Behavior of Ce ⁴⁺ Metal-Organic Frameworks by X-ray Absorption Spectroscopy. <i>ChemPhysChem</i> , 2018, 19, 373-378.	1.0	89
40	Indirect tail states formation by thermal-induced polar fluctuations in halide perovskites. <i>Nature Communications</i> , 2019, 10, 484.	5.8	88
41	Tracking Structural Phase Transitions in Lead-Halide Perovskites by Means of Thermal Expansion. <i>Advanced Materials</i> , 2019, 31, e1900521.	11.1	88
42	A Facet-Specific Quantum Dot Passivation Strategy for Colloid Management and Efficient Infrared Photovoltaics. <i>Advanced Materials</i> , 2019, 31, e1805580.	11.1	87
43	High-Resolution Single-Molecule Fluorescence Imaging of Zeolite Aggregates within Real-Life Fluid Catalytic Cracking Particles. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 1836-1840.	7.2	85
44	S-scheme CoTiO ₃ /Cd _{0.51} Zn _{0.49} S ₁₀ heterostructures for visible-light driven photocatalytic CO ₂ reduction. <i>Journal of Materials Science and Technology</i> , 2022, 124, 164-170.	5.6	83
45	Challenges and Opportunities for CsPbBr ₃ Perovskites in Low- and High-Energy Radiation Detection. <i>ACS Energy Letters</i> , 2021, 6, 1290-1314.	8.8	80
46	Photoluminescence Blinking of Single-Crystal Methylammonium Lead Iodide Perovskite Nanorods Induced by Surface Traps. <i>ACS Omega</i> , 2016, 1, 148-159.	1.6	76
47	Silver Clusters in Zeolites: From Self-Assembly to Ground-Breaking Luminescent Properties. <i>Accounts of Chemical Research</i> , 2017, 50, 2353-2361.	7.6	72
48	Tuning the Structural and Optoelectronic Properties of Cs ₂ AgBiBr ₆ Double-Perovskite Single Crystals through Alkali-Metal Substitution. <i>Advanced Materials</i> , 2020, 32, e2001878.	11.1	72
49	Single Molecule Nanospectroscopy Visualizes Proton-Transfer Processes within a Zeolite Crystal. <i>Journal of the American Chemical Society</i> , 2016, 138, 13586-13596.	6.6	71
50	Thermally activated LTA(Li)-Ag zeolites with water-responsive photoluminescence properties. <i>Journal of Materials Chemistry C</i> , 2015, 3, 11857-11867.	2.7	70
51	Single-Molecule Fluorescence Microscopy Reveals Local Diffusion Coefficients in the Pore Network of an Individual Catalyst Particle. <i>Journal of the American Chemical Society</i> , 2017, 139, 13632-13635.	6.6	70
52	Quantitative 3D Fluorescence Imaging of Single Catalytic Turnovers Reveals Spatiotemporal Gradients in Reactivity of Zeolite H-ZSM-5 Crystals upon Steaming. <i>Journal of the American Chemical Society</i> , 2015, 137, 6559-6568.	6.6	69
53	Synergistic Redox Reaction for Value-Added Organic Transformation via Dual-Functional Photocatalytic Systems. <i>ACS Catalysis</i> , 2021, 11, 4613-4632.	5.5	69
54	Phase Transitions and Anion Exchange in All-Inorganic Halide Perovskites. <i>Accounts of Materials Research</i> , 2020, 1, 3-15.	5.9	67

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55	Chemoselective reduction of $\hat{1}\pm, \hat{1}^2$ -unsaturated carbonyl compounds with UiO-66 materials. <i>Journal of Catalysis</i> , 2016, 340, 136-143.	3.1	66
56	Direct Laser Writing of $\hat{1}^-$ to $\hat{1}\pm$ -Phase Transformation in Formamidinium Lead Iodide. <i>ACS Nano</i> , 2017, 11, 8072-8083.	7.3	66
57	Determination and Optimization of the Luminescence External Quantum Efficiency of Silver-Clusters Zeolite Composites. <i>Journal of Physical Chemistry C</i> , 2013, 117, 6998-7004.	1.5	64
58	Relating Pore Structure to Activity at the Subcrystal Level for ZSM-5: An Electron Backscattering Diffraction and Fluorescence Microscopy Study. <i>Journal of the American Chemical Society</i> , 2008, 130, 13516-13517.	6.6	62
59	Dynamic Disorder and Stepwise Deactivation in a Chymotrypsin Catalyzed Hydrolysis Reaction. <i>Journal of the American Chemical Society</i> , 2007, 129, 15458-15459.	6.6	61
60	Exploration of Atmospheric Pressure Plasma Nanofilm Technology for Straightforward Bioactive Coating Deposition: Enzymes, Plasmas and Polymers, an Elegant Synergy. <i>Plasma Processes and Polymers</i> , 2011, 8, 965-974.	1.6	61
61	Base catalytic activity of alkaline earth MOFs: a (micro)spectroscopic study of active site formation by the controlled transformation of structural anions. <i>Chemical Science</i> , 2014, 5, 4517-4524.	3.7	58
62	Visualization of molecular fluorescence point spread functions via remote excitation switching fluorescence microscopy. <i>Nature Communications</i> , 2015, 6, 6287.	5.8	58
63	Direct Observation of Luminescent Silver Clusters Confined in Faujasite Zeolites. <i>ACS Nano</i> , 2016, 10, 7604-7611.	7.3	58
64	Role of Electron-Phonon Coupling in the Thermal Evolution of Bulk Rashba-Like Spin-Split Lead Halide Perovskites Exhibiting Dual-Band Photoluminescence. <i>ACS Energy Letters</i> , 2019, 4, 2205-2212.	8.8	58
65	Exploration of Single Molecule Events in a Haloperoxidase and Its Biomimic: Localization of Halogenation Activity. <i>Journal of the American Chemical Society</i> , 2008, 130, 13192-13193.	6.6	57
66	Manipulating crystallization dynamics through chelating molecules for bright perovskite emitters. <i>Nature Communications</i> , 2021, 12, 4831.	5.8	56
67	In Situ Space- and Time-Resolved Sorption Kinetics of Anionic Dyes on Individual LDH Crystals. <i>ChemPhysChem</i> , 2005, 6, 2295-2299.	1.0	52
68	Fluorescence microscopy: Bridging the phase gap in catalysis. <i>Catalysis Today</i> , 2007, 126, 44-53.	2.2	52
69	In Situ Observation of the Emission Characteristics of Zeolite-Hosted Silver Species During Heat Treatment. <i>ChemPhysChem</i> , 2010, 11, 1627-1631.	1.0	52
70	Zr-Based MOF-808 as Meerwein-Ponndorf-Verley Reduction Catalyst for Challenging Carbonyl Compounds. <i>Catalysts</i> , 2016, 6, 104.	1.6	52
71	Silica gel solid nanocomposite electrolytes with interfacial conductivity promotion exceeding the bulk Li-ion conductivity of the ionic liquid electrolyte filler. <i>Science Advances</i> , 2020, 6, eaav3400.	4.7	51
72	Protein Immobilization Using Atmospheric-Pressure Dielectric-Barrier Discharges: A Route to a Straightforward Manufacture of Bioactive Films. <i>Plasma Processes and Polymers</i> , 2008, 5, 186-191.	1.6	49

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73	X-ray irradiation-induced formation of luminescent silver clusters in nanoporous matrices. <i>Chemical Communications</i> , 2014, 50, 1350-1352.	2.2	49
74	Metal Halide Perovskite Based Heterojunction Photocatalysts. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	48
75	Delayed electron-hole pair recombination in iron(III)-oxo metal-organic frameworks. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 5044-5047.	1.3	46
76	Air-based photoelectrochemical cell capturing water molecules from ambient air for hydrogen production. <i>RSC Advances</i> , 2014, 4, 29286-29290.	1.7	45
77	Biocompatible Label-Free Detection of Carbon Black Particles by Femtosecond Pulsed Laser Microscopy. <i>Nano Letters</i> , 2016, 16, 3173-3178.	4.5	44
78	Rationalizing Inter- and Intracrystal Heterogeneities in Dealuminated Acid Mordenite Zeolites by Stimulated Raman Scattering Microscopy Correlated with Super-resolution Fluorescence Microscopy. <i>ACS Nano</i> , 2014, 8, 12650-12659.	7.3	43
79	Active Role of Methanol in Post-Synthetic Linker Exchange in the Metal-Organic Framework UiO-66. <i>Chemistry of Materials</i> , 2019, 31, 1359-1369.	3.2	43
80	Facet-Dependent Photoreduction on Single ZnO Crystals. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 340-346.	2.1	42
81	Vapor-Phase Linker Exchange of the Metal-Organic Framework ZIF-8: A Solvent-Free Approach to Post-synthetic Modification. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 18471-18475.	7.2	42
82	Label-free imaging of biomolecules in food products using stimulated Raman microscopy. <i>Journal of Biomedical Optics</i> , 2011, 16, 021118.	1.4	41
83	Towards direct monitoring of discrete events in a catalytic cycle at the single molecule level. <i>Photochemical and Photobiological Sciences</i> , 2009, 8, 453-456.	1.6	40
84	Molecular organization of hydrophobic molecules and co-adsorbed water in SBA-15 ordered mesoporous silica material. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 2706-2713.	1.3	40
85	Parts per Million Detection of Alcohol Vapors via Metal Organic Framework Functionalized Surface Plasmon Resonance Sensors. <i>Analytical Chemistry</i> , 2017, 89, 4480-4487.	3.2	40
86	Atomic scale reversible opto-structural switching of few atom luminescent silver clusters confined in LTA zeolites. <i>Nanoscale</i> , 2018, 10, 11467-11476.	2.8	40
87	Ultrathin 2D/2D Ti ₃ C ₂ T _x /semiconductor dual-functional photocatalysts for simultaneous imine production and H ₂ evolution. <i>Journal of Materials Chemistry A</i> , 2021, 9, 19984-19993.	5.2	40
88	Highly Mobile Large Polarons in Black Phase CsPbI ₃ . <i>ACS Energy Letters</i> , 2021, 6, 568-573.	8.8	40
89	Matrix deformations around angiogenic sprouts correlate to sprout dynamics and suggest pulling activity. <i>Angiogenesis</i> , 2020, 23, 315-324.	3.7	40
90	Photocatalytic growth of dendritic silver nanostructures as SERS substrates. <i>Chemical Communications</i> , 2012, 48, 1559-1561.	2.2	38

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91	Optical Heterodyne-Detected Raman-Induced Kerr Effect (OHD-RIKE) Microscopy. <i>Journal of Physical Chemistry B</i> , 2011, 115, 5574-5581.	1.2	37
92	A Titanium(IV)-Based Metal-Organic Framework Featuring Defect-Rich TiO Sheets as an Oxidative Desulfurization Catalyst. <i>Angewandte Chemie</i> , 2019, 131, 9258-9263.	1.6	37
93	The Hole-Tunneling Heterojunction of Hematite-Based Photoanodes Accelerates Photosynthetic Reaction. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 16009-16018.	7.2	37
94	Noninvasive Nanoscopy Uncovers the Impact of the Hierarchical Porous Structure on the Catalytic Activity of Single Dealuminated Mordenite Crystals. <i>ChemCatChem</i> , 2015, 7, 3646-3650.	1.8	35
95	Adsorption and Separation of Aromatic Amino Acids from Aqueous Solutions Using Metal-Organic Frameworks. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 30064-30073.	4.0	35
96	Trojans That Flip the Black Phase: Impurity-Driven Stabilization and Spontaneous Strain Suppression in FAPbI_3 Perovskite. <i>Journal of the American Chemical Society</i> , 2021, 143, 10500-10508.	6.6	33
97	Planar heterojunction boosts solar-driven photocatalytic performance and stability of halide perovskite solar photocatalyst cell. <i>Applied Catalysis B: Environmental</i> , 2022, 301, 120760.	10.8	33
98	Silver Zeolite Composites-Based LEDs: A Novel Solid-State Lighting Approach. <i>Advanced Functional Materials</i> , 2017, 27, 1606411.	7.8	30
99	Solar Photocatalytic Oxidation of Methane to Methanol with Water over $\text{RuO}_2/\text{ZnO}/\text{CeO}_2$ Nanorods. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 16-22.	3.2	30
100	The influence of diffusion phenomena on catalysis: A study at the single particle level using fluorescence microscopy. <i>Catalysis Today</i> , 2010, 157, 236-242.	2.2	29
101	Energy-Efficient Ammonia Production from Air and Water Using Electrocatalysts with Limited Faradaic Efficiency. <i>ACS Energy Letters</i> , 2020, 5, 1124-1127.	8.8	29
102	Reshaping anisotropic gold nanoparticles through oxidative etching: the role of the surfactant and nanoparticle surface curvature. <i>RSC Advances</i> , 2015, 5, 6829-6833.	1.7	28
103	Imaging Heterogeneously Distributed Photo-Active Traps in Perovskite Single Crystals. <i>Advanced Materials</i> , 2018, 30, e1705494.	11.1	28
104	Shaping the Optical Properties of Silver Clusters Inside Zeolite A via Guest-Host-Guest Interactions. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 5344-5350.	2.1	28
105	Incorporation of Cesium Lead Halide Perovskites into $\text{g-C}_3\text{N}_4$ for Photocatalytic CO_2 Reduction. <i>ACS Omega</i> , 2020, 5, 24495-24503.	1.6	28
106	Single-Step Synthesis of Dual Phase Bright Blue-Green Emitting Lead Halide Perovskite Nanocrystal Thin Films. <i>Chemistry of Materials</i> , 2019, 31, 6824-6832.	3.2	26
107	Superconducting Ferromagnetic Nanodiamond. <i>ACS Nano</i> , 2017, 11, 5358-5366.	7.3	25
108	Form Follows Function: Warming White LEDs Using Metal Cluster-Loaded Zeolites as Phosphors. <i>ACS Energy Letters</i> , 2017, 2, 2491-2497.	8.8	25

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109	Structural and Photophysical Characterization of Ag Clusters in LTA Zeolites. <i>Journal of Physical Chemistry C</i> , 2019, 123, 10630-10638.	1.5	25
110	Fluorescent oxygen sensitive microbead incorporation for measuring oxygen tension in cell aggregates. <i>Biomaterials</i> , 2013, 34, 922-929.	5.7	24
111	3D full-field quantification of cell-induced large deformations in fibrillar biomaterials by combining non-rigid image registration with label-free second harmonic generation. <i>Biomaterials</i> , 2017, 136, 86-97.	5.7	24
112	Solvent Polarity-Induced Pore Selectivity in H-ZSM-5 Catalysis. <i>ACS Catalysis</i> , 2017, 7, 4248-4252.	5.5	24
113	Confinement of Highly Luminescent Lead Clusters in Zeolite A. <i>Journal of Physical Chemistry C</i> , 2018, 122, 13953-13961.	1.5	24
114	Visualizing light-induced dynamic structural transformations of Au clusters-based photocatalyst via in situ TEM. <i>Nano Research</i> , 2021, 14, 2805-2809.	5.8	24
115	Fibrin structural and diffusional analysis suggests that fibers are permeable to solute transport. <i>Acta Biomaterialia</i> , 2017, 47, 25-39.	4.1	23
116	Efficient Photocatalytic CO ₂ Reduction with MIL-100(Fe)-CsPbBr ₃ Composites. <i>Catalysts</i> , 2020, 10, 1352.	1.6	23
117	Photothermal Suzuki Coupling Over a Metal Halide Perovskite/Pd Nanocube Composite Catalyst. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 17185-17194.	4.0	23
118	A non-invasive fluorescent staining procedure allows Confocal Laser Scanning Microscopy based imaging of Mycobacterium in multispecies biofilms colonizing and degrading polycyclic aromatic hydrocarbons. <i>Journal of Microbiological Methods</i> , 2010, 83, 317-325.	0.7	22
119	Resolving Interparticle Heterogeneities in Composition and Hydrogenation Performance between Individual Supported Silver on Silica Catalysts. <i>ACS Catalysis</i> , 2015, 5, 6690-6695.	5.5	22
120	Silver-induced reconstruction of an adeninate-based metal-organic framework for encapsulation of luminescent adenine-stabilized silver clusters. <i>Journal of Materials Chemistry C</i> , 2016, 4, 4259-4268.	2.7	22
121	Reversible and Site-Dependent Proton-Transfer in Zeolites Uncovered at the Single-Molecule Level. <i>Journal of the American Chemical Society</i> , 2018, 140, 14195-14205.	6.6	22
122	Arabinoxylan, β -glucan and pectin in barley and malt endosperm cell walls: a microstructure study using CLSM and cryo-SEM. <i>Plant Journal</i> , 2020, 103, 1477-1489.	2.8	22
123	Alternating Current Electrophoretic Deposition for the Immobilization of Antimicrobial Agents on Titanium Implant Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 8533-8546.	4.0	21
124	Photocatalysis assisted simultaneous carbon oxidation and NO _x reduction. <i>Applied Catalysis B: Environmental</i> , 2017, 202, 381-387.	10.8	21
125	Surface acid-base catalytic activity of ZIF-8 revealed by super-resolution fluorescence microscopy. <i>CrystEngComm</i> , 2017, 19, 4162-4165.	1.3	20
126	Probing the Influence of SSZ-13 Zeolite Pore Hierarchy in Methanol-to-Olefins Catalysis by Using Nanometer Accuracy by Stochastic Chemical Reactions Fluorescence Microscopy and Positron Emission Profiling. <i>ChemCatChem</i> , 2017, 9, 3470-3477.	1.8	19

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127	Rationalizing Acid Zeolite Performance on the Nanoscale by Correlative Fluorescence and Electron Microscopy. <i>ACS Catalysis</i> , 2017, 7, 5234-5242.	5.5	19
128	Dual-Channel Charge Carrier Transfer in CsPbX ₃ Perovskite/W ₁₈ O ₄₉ Composites for Selective Photocatalytic Benzyl Alcohol Oxidation. <i>ACS Applied Energy Materials</i> , 2021, 4, 3460-3468.	2.5	19
129	Facile Morphology-Controlled Synthesis of Organolead Iodide Perovskite Nanocrystals Using Binary Capping Agents. <i>ChemNanoMat</i> , 2017, 3, 223-227.	1.5	18
130	Texture Formation in Polycrystalline Thin Films of All-Inorganic Lead Halide Perovskite. <i>Advanced Materials</i> , 2021, 33, e2007224.	11.1	18
131	Luminescent silver-lithium-zeolite phosphors for near-ultraviolet LED applications. <i>Journal of Materials Chemistry C</i> , 2019, 7, 14366-14374.	2.7	17
132	Two-dimensional perovskites with alternating cations in the interlayer space for stable light-emitting diodes. <i>Nanophotonics</i> , 2021, 10, 2145-2156.	2.9	17
133	Light- and Temperature-Modulated Magneto-Transport in Organic-Inorganic Lead Halide Perovskites. <i>ACS Energy Letters</i> , 2018, 3, 39-45.	8.8	15
134	A Causal Relation between Bioluminescence and Oxygen to Quantify the Cell Niche. <i>PLoS ONE</i> , 2014, 9, e97572.	1.1	15
135	Assessing Photocatalytic Activity at the Nanoscale Using Integrated Optical and Electron Microscopy. <i>Particle and Particle Systems Characterization</i> , 2016, 33, 412-418.	1.2	14
136	Resolving the Framework Position of Organic Structure-Directing Agents in Hierarchical Zeolites via Polarized Stimulated Raman Scattering. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 1778-1782.	2.1	14
137	Low-temperature activation of carbon black by selective photocatalytic oxidation. <i>Nanoscale Advances</i> , 2019, 1, 2873-2880.	2.2	14
138	Vapor-Phase Linker Exchange of the Metal-Organic Framework ZIF-8: A Solvent-Free Approach to Post-synthetic Modification. <i>Angewandte Chemie</i> , 2019, 131, 18642-18646.	1.6	14
139	Polyvinylnorbornene Gas Separation Membranes. <i>Polymers</i> , 2019, 11, 704.	2.0	14
140	Silver Zeolite Composite-Based LEDs: Origin of Electroluminescence and Charge Transport. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 12179-12183.	4.0	14
141	X-Ray-Induced Growth Dynamics of Luminescent Silver Clusters in Zeolites. <i>Small</i> , 2020, 16, e2002063.	5.2	14
142	Selective photocatalytic oxidation of gaseous ammonia to dinitrogen in a continuous flow reactor. <i>Catalysis Science and Technology</i> , 2012, 2, 1802.	2.1	13
143	Photocatalysts in close-up. <i>Nature</i> , 2016, 530, 36-37.	13.7	13
144	Highly Photoluminescent Sulfide Clusters Confined in Zeolites. <i>Journal of Physical Chemistry C</i> , 2018, 122, 14761-14770.	1.5	13

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145	Label-free detection of uptake, accumulation, and translocation of diesel exhaust particles in ex vivo perfused human placenta. <i>Journal of Nanobiotechnology</i> , 2021, 19, 144.	4.2	13
146	Photopatterning of fluorescent host-guest carriers through pore activation of metal-organic framework single crystals. <i>Chemical Communications</i> , 2017, 53, 7222-7225.	2.2	12
147	Assessing Inter and Intra-particle Heterogeneity in Alumina-poor H-ZSM-5 Zeolites. <i>ChemCatChem</i> , 2017, 9, 3440-3445.	1.8	12
148	Correlating Catalyst Structure and Activity at the Nanoscale. <i>ChemNanoMat</i> , 2018, 4, 6-14.	1.5	12
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