

Johan Hofkens

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556
papers

25,156
citations

86
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132
g-index

626
ext. papers

28,668
ext. citations

8.7
avg, IF

6.86
L-index

#	Paper	IF	Citations
556	Role of PFKFB3-driven glycolysis in vessel sprouting. <i>Cell</i> , 2013 , 154, 651-63	56.2	798
555	The rylene colorant family--tailored nanoemitters for photonics research and applications. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 9068-93	16.4	509
554	Dopant-induced electron localization drives CO reduction to C hydrocarbons. <i>Nature Chemistry</i> , 2018 , 10, 974-980	17.6	435
553	Iron(III)-based metal-organic frameworks as visible light photocatalysts. <i>Journal of the American Chemical Society</i> , 2013 , 135, 14488-91	16.4	413
552	Reversible single-molecule photoswitching in the GFP-like fluorescent protein Dronpa. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 9511-6	11.5	410
551	Spatially resolved observation of crystal-face-dependent catalysis by single turnover counting. <i>Nature</i> , 2006 , 439, 572-5	50.4	387
550	Fluorescence lifetime standards for time and frequency domain fluorescence spectroscopy. <i>Analytical Chemistry</i> , 2007 , 79, 2137-49	7.8	338
549	Thermal unequilibrium of strained black CsPbI thin films. <i>Science</i> , 2019 , 365, 679-684	33.3	272
548	Energy dissipation in multichromophoric single dendrimers. <i>Accounts of Chemical Research</i> , 2005 , 38, 514-22	24.3	257
547	Stretched exponential decay and correlations in the catalytic activity of fluctuating single lipase molecules. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 2368-72	11.5	256
546	Bandgap opening in oxygen plasma-treated graphene. <i>Nanotechnology</i> , 2010 , 21, 435203	3.4	253
545	State of the Art and Prospects for Halide Perovskite Nanocrystals. <i>ACS Nano</i> , 2021 , 15, 10775-10981	16.7	222
544	Probing Photophysical Processes in Individual Multichromophoric Dendrimers by Single-Molecule Spectroscopy. <i>Journal of the American Chemical Society</i> , 2000 , 122, 9278-9288	16.4	220
543	Perovskite seeding growth of formamidinium-lead-iodide-based perovskites for efficient and stable solar cells. <i>Nature Communications</i> , 2018 , 9, 1607	17.4	218
542	Photoswitches: Key molecules for subdiffraction-resolution fluorescence imaging and molecular quantification. <i>Laser and Photonics Reviews</i> , 2009 , 3, 180-202	8.3	218
541	Solar-Driven Metal Halide Perovskite Photocatalysis: Design, Stability, and Performance. <i>ACS Energy Letters</i> , 2020 , 5, 1107-1123	20.1	212
540	Solvent and pH dependent fluorescent properties of a dimethylaminostyryl borondipyrromethene dye in solution. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 5998-6009	2.8	204

539	It's a trap! On the nature of localised states and charge trapping in lead halide perovskites. <i>Materials Horizons</i> , 2020 , 7, 397-410	14.4	204
538	Direct patterning of oriented metal-organic framework crystals via control over crystallization kinetics in clear precursor solutions. <i>Advanced Materials</i> , 2010 , 22, 2685-8	24	195
537	Degradation of Methylammonium Lead Iodide Perovskite Structures through Light and Electron Beam Driven Ion Migration. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 561-6	6.4	193
536	O ₂ and Membrane Depolarization Are Part of a Microbial Bet-Hedging Strategy that Leads to Antibiotic Tolerance. <i>Molecular Cell</i> , 2015 , 59, 9-21	17.6	192
535	An experimental comparison of the maximum likelihood estimation and nonlinear least-squares fluorescence lifetime analysis of single molecules. <i>Analytical Chemistry</i> , 2001 , 73, 2078-86	7.8	186
534	Polymers and single molecule fluorescence spectroscopy, what can we learn?. <i>Chemical Society Reviews</i> , 2009 , 38, 313-28	58.5	178
533	Auto-production of biosurfactants reverses the coffee ring effect in a bacterial system. <i>Nature Communications</i> , 2013 , 4, 1757	17.4	172
532	2011 ,		166
531	Design aspects of bright red emissive silver nanoclusters/DNA probes for microRNA detection. <i>ACS Nano</i> , 2012 , 6, 8803-14	16.7	163
530	Single-enzyme kinetics of CALB-catalyzed hydrolysis. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 560-4	16.4	160
529	Super-resolution reactivity mapping of nanostructured catalyst particles. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 9285-9	16.4	157
528	Revealing competitive Forster-type resonance energy-transfer pathways in single bichromophoric molecules. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 13146-51	11.5	152
527	Probing intramolecular Förster resonance energy transfer in a naphthaleneimide-peryleneimide-terryleneimide-based dendrimer by ensemble and single-molecule fluorescence spectroscopy. <i>Journal of the American Chemical Society</i> , 2005 , 127, 9760-8	16.4	149
526	Fluorescence from Azobenzene Functionalized Poly(propylene imine) Dendrimers in Self-Assembled Supramolecular Structures. <i>Journal of the American Chemical Society</i> , 2000 , 122, 3445-3452	16.4	148
525	Efficient and Selective Photocatalytic Oxidation of Benzylic Alcohols with Hybrid Organic-Inorganic Perovskite Materials. <i>ACS Energy Letters</i> , 2018 , 3, 755-759	20.1	147
524	Characterization of fluorescence in heat-treated silver-exchanged zeolites. <i>Journal of the American Chemical Society</i> , 2009 , 131, 3049-56	16.4	146
523	Fluorescent proteins: shine on, you crazy diamond. <i>Journal of the American Chemical Society</i> , 2013 , 135, 2387-402	16.4	145
522	Identification of different emitting species in the red fluorescent protein DsRed by means of ensemble and single-molecule spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001 , 98, 14398-403	11.5	141

521	Single-molecule surface enhanced resonance Raman spectroscopy of the enhanced green fluorescent protein. <i>Journal of the American Chemical Society</i> , 2003 , 125, 8446-7	16.4	139
520	Polyphenylene dendrimers with different fluorescent chromophores asymmetrically distributed at the periphery. <i>Journal of the American Chemical Society</i> , 2001 , 123, 8101-8	16.4	139
519	Characterizing the fluorescence intermittency and photobleaching kinetics of dye molecules immobilized on a glass surface. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 1726-34	2.8	137
518	A stroboscopic approach for fast photoactivation-localization microscopy with Dronpa mutants. <i>Journal of the American Chemical Society</i> , 2007 , 129, 13970-7	16.4	136
517	Fluorescence micro(spectro)scopy as a tool to study catalytic materials in action. <i>Chemical Society Reviews</i> , 2010 , 39, 4703-17	58.5	135
516	Intramolecular energy hopping and energy trapping in polyphenylene dendrimers with multiple peryleneimide donor chromophores and a teryleneimide acceptor trap chromophore. <i>Journal of the American Chemical Society</i> , 2001 , 123, 7668-76	16.4	134
515	Single-molecule fluorescence spectroscopy in (bio)catalysis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 12603-9	11.5	131
514	Morphology of large ZSM-5 crystals unraveled by fluorescence microscopy. <i>Journal of the American Chemical Society</i> , 2008 , 130, 5763-72	16.4	130
513	Conformational rearrangements in and twisting of a single molecule. <i>Chemical Physics Letters</i> , 2001 , 333, 255-263	2.5	129
512	Visualizing spatial and temporal heterogeneity of single molecule rotational diffusion in a glassy polymer by defocused wide-field imaging. <i>Polymer</i> , 2006 , 47, 2511-2518	3.9	125
511	Rylenfarbstoffe als maßgeschneiderte Nanoemitter für die Photonik. <i>Angewandte Chemie</i> , 2010 , 122, 9252-9278	3.6	124
510	Giant Electron-Phonon Coupling and Deep Conduction Band Resonance in Metal Halide Double Perovskite. <i>ACS Nano</i> , 2018 , 12, 8081-8090	16.7	123
509	Subdiffraction limited, remote excitation of surface enhanced Raman scattering. <i>Nano Letters</i> , 2009 , 9, 995-1001	11.5	120
508	Subdiffraction imaging through the selective donut-mode depletion of thermally stable photoswitchable fluorophores: numerical analysis and application to the fluorescent protein Dronpa. <i>Journal of the American Chemical Society</i> , 2007 , 129, 16132-41	16.4	120
507	Photophysical Pathways in Highly Sensitive Cs AgBiBr Double-Perovskite Single-Crystal X-Ray Detectors. <i>Advanced Materials</i> , 2018 , 30, e1804450	24	117
506	The ER Stress Sensor PERK Coordinates ER-Plasma Membrane Contact Site Formation through Interaction with Filamin-A and F-Actin Remodeling. <i>Molecular Cell</i> , 2017 , 65, 885-899.e6	17.6	114
505	High-resolution single-turnover mapping reveals intraparticle diffusion limitation in Ti-MCM-41-catalyzed epoxidation. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 908-11	16.4	114
504	Antibunching in the emission of a single tetrachromophoric dendritic system. <i>Journal of the American Chemical Society</i> , 2002 , 124, 14310-1	16.4	114

503	Probing Förster Type Energy Pathways in a First Generation Rigid Dendrimer Bearing Two Perylene Imide Chromophores. <i>Journal of Physical Chemistry A</i> , 2003 , 107, 6920-6931	2.8	113
502	Tuning the energetics and tailoring the optical properties of silver clusters confined in zeolites. <i>Nature Materials</i> , 2016 , 15, 1017-22	27	111
501	Three-dimensional visualization of defects formed during the synthesis of metal-organic frameworks: a fluorescence microscopy study. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 401-5	16.4	109
500	Space- and time-resolved visualization of acid catalysis in ZSM-5 crystals by fluorescence microscopy. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 1706-9	16.4	109
499	Quantitative multicolor super-resolution microscopy reveals tetherin HIV-1 interaction. <i>PLoS Pathogens</i> , 2011 , 7, e1002456	7.6	108
498	Dark states in monomeric red fluorescent proteins studied by fluorescence correlation and single molecule spectroscopy. <i>Biophysical Journal</i> , 2008 , 94, 4103-13	2.9	108
497	Intramolecular Förster energy transfer in a dendritic system at the single molecule level. <i>Journal of the American Chemical Society</i> , 2002 , 124, 2418-9	16.4	108
496	Single molecule methods for the study of catalysis: from enzymes to heterogeneous catalysts. <i>Chemical Society Reviews</i> , 2014 , 43, 990-1006	58.5	105
495	Water-soluble monofunctional perylene and terylene dyes: powerful labels for single-enzyme tracking. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 3372-5	16.4	105
494	LEDGINs inhibit late stage HIV-1 replication by modulating integrase multimerization in the virions. <i>Retrovirology</i> , 2013 , 10, 57	3.6	104
493	Radical C-H arylation of the BODIPY core with aryldiazonium salts: synthesis of highly fluorescent red-shifted dyes. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 4612-6	16.4	104
492	Probing conformational dynamics in single donor-acceptor synthetic molecules by means of photoinduced reversible electron transfer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 14343-8	11.5	103
491	New picosecond laser system for easy tunability over the whole ultraviolet/visible/near infrared wavelength range based on flexible harmonic generation and optical parametric oscillation. <i>Review of Scientific Instruments</i> , 2001 , 72, 36-40	1.7	103
490	Highlighted generation of fluorescence signals using simultaneous two-color irradiation on Dronpa mutants. <i>Biophysical Journal</i> , 2007 , 92, L97-9	2.9	101
489	Optical encoding of silver zeolite microcarriers. <i>Advanced Materials</i> , 2010 , 22, 957-60	24	100
488	Singlet oxygen photosensitization by EGFP and its chromophore HBDI. <i>Biophysical Journal</i> , 2008 , 94, 168-72	2.9	99
487	Host Matrix Dependence on the Photophysical Properties of Individual Conjugated Polymer Chains. <i>Macromolecules</i> , 2003 , 36, 500-507	5.5	99
486	Self-assembled organic microfibers for nonlinear optics. <i>Advanced Materials</i> , 2013 , 25, 2084-9	24	98

485	Excitation wavelength dependent surface enhanced Raman scattering of 4-aminothiophenol on gold nanorings. <i>Nanoscale</i> , 2012 , 4, 1606-11	7.7	97
484	Intramolecular directional Förster resonance energy transfer at the single-molecule level in a dendritic system. <i>Journal of the American Chemical Society</i> , 2003 , 125, 13609-17	16.4	97
483	Parameters Influencing the On- and Off-Times in the Fluorescence Intensity Traces of Single Cyanine Dye Molecules. <i>Journal of Physical Chemistry A</i> , 2002 , 106, 4808-4814	2.8	97
482	Molecular Assembling by the Radiation Pressure of a Focused Laser Beam: Poly(N-isopropylacrylamide) in Aqueous Solution. <i>Langmuir</i> , 1997 , 13, 414-419	4	96
481	Fluorescent probes for superresolution imaging of lipid domains on the plasma membrane. <i>Chemical Science</i> , 2011 , 2, 1548	9.4	95
480	Photophysics of a WaterSoluble Rylene Dye: Comparison with Other Fluorescent Molecules for Biological Applications. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 12242-12251	3.4	95
479	Live-cell SERS endoscopy using plasmonic nanowire waveguides. <i>Advanced Materials</i> , 2014 , 26, 5124-8	24	93
478	Effect of Core Structure on Photophysical and Hydrodynamic Properties of Porphyrin Dendrimers. <i>Macromolecules</i> , 2000 , 33, 2967-2973	5.5	92
477	Polyphenylene dendrimers with perylene diimide as a luminescent core. <i>Chemistry - A European Journal</i> , 2001 , 7, 4844-53	4.8	91
476	Metal-organic framework single crystals as photoactive matrices for the generation of metallic microstructures. <i>Advanced Materials</i> , 2011 , 23, 1788-91	24	90
475	Photoinduced electron transfer in a rigid first generation triphenylamine core dendrimer substituted with a peryleneimide acceptor. <i>Journal of the American Chemical Society</i> , 2002 , 124, 9918-25	16.4	90
474	Tunable Ratiometric Fluorescence Sensing of Intracellular pH by Aggregation-Induced Emission-Active Hyperbranched Polymer Nanoparticles. <i>Chemistry of Materials</i> , 2015 , 27, 3450-3455	9.6	89
473	Excited-State Dynamics in the Enhanced Green Fluorescent Protein Mutant Probed by Picosecond Time-Resolved Single Photon Counting Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 4999-5006	3.4	89
472	Photoactivation of silver-exchanged zeolite A. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 2813-16	6.4	88
471	High-throughput fabrication of organic nanowire devices with preferential internal alignment and improved performance. <i>Nano Letters</i> , 2007 , 7, 3639-44	11.5	87
470	Fluorescence Detection from Single Dendrimers with Multiple Chromophores. <i>Angewandte Chemie - International Edition</i> , 1999 , 38, 3752-3756	16.4	86
469	Fluorescence of single molecules in polymer films: sensitivity of blinking to local environment. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 6987-91	3.4	85
468	Transfection of living HeLa cells with fluorescent poly-cytosine encapsulated Ag nanoclusters. <i>Photochemical and Photobiological Sciences</i> , 2010 , 9, 716-21	4.2	84

467	Intramolecular Energy Hopping in Polyphenylene Dendrimers with an Increasing Number of Peryleneimide Chromophores. <i>Journal of Physical Chemistry A</i> , 2001 , 105, 3961-3966	2.8	84
466	Origin of the bright photoluminescence of few-atom silver clusters confined in LTA zeolites. <i>Science</i> , 2018 , 361, 686-690	33.3	83
465	Spectroscopic rationale for efficient stimulated-emission depletion microscopy fluorophores. <i>Journal of the American Chemical Society</i> , 2010 , 132, 5021-3	16.4	83
464	Photophysical study of a multi-chromophoric dendrimer by time-resolved fluorescence and femtosecond transient absorption spectroscopy. <i>Chemical Physics Letters</i> , 1999 , 304, 1-9	2.5	82
463	Optical mapping of DNA: single-molecule-based methods for mapping genomes. <i>Biopolymers</i> , 2011 , 95, 298-311	2.2	81
462	Rational design of photoconvertible and biphotochromic fluorescent proteins for advanced microscopy applications. <i>Chemistry and Biology</i> , 2011 , 18, 1241-51		79
461	Energy and Electron Transfer in Ethynylene Bridged Perylene Diimide Multichromophores. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 4861-4870	3.8	79
460	Edge stabilization in reduced-dimensional perovskites. <i>Nature Communications</i> , 2020 , 11, 170	17.4	79
459	Defocused Wide-field Imaging Unravels Structural and Temporal Heterogeneity in Complex Systems. <i>Advanced Materials</i> , 2009 , 21, 1079-1090	24	77
458	Photo-induced protonation/deprotonation in the GFP-like fluorescent protein Dronpa: mechanism responsible for the reversible photoswitching. <i>Photochemical and Photobiological Sciences</i> , 2006 , 5, 567-76	4.2	75
457	High-resolution single-molecule fluorescence imaging of zeolite aggregates within real-life fluid catalytic cracking particles. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 1836-40	16.4	74
456	C(sp ³) π Bond Activation by Perovskite Solar Photocatalyst Cell. <i>ACS Energy Letters</i> , 2019 , 4, 203-208	20.1	74
455	"Supertrap" at Work: Extremely Efficient Nonradiative Recombination Channels in MAPbI Perovskites Revealed by Luminescence Super-Resolution Imaging and Spectroscopy. <i>ACS Nano</i> , 2017 , 11, 5391-5404	16.7	73
454	DNA fluorocode: A single molecule, optical map of DNA with nanometre resolution. <i>Chemical Science</i> , 2010 , 1, 453	9.4	73
453	Evidence for the isomerization and decarboxylation in the photoconversion of the red fluorescent protein DsRed. <i>Journal of the American Chemical Society</i> , 2005 , 127, 8977-84	16.4	73
452	Absolute determination of photoluminescence quantum efficiency using an integrating sphere setup. <i>Review of Scientific Instruments</i> , 2014 , 85, 123115	1.7	71
451	Subsurface Defect Engineering in Single-Unit-Cell Bi ₂ WO ₆ Monolayers Boosts Solar-Driven Photocatalytic Performance. <i>ACS Catalysis</i> , 2020 , 10, 1439-1443	13.1	71
450	Direct Z-Scheme Heterojunction of Semicoherent FAPbBr/BiWO Interface for Photoredox Reaction with Large Driving Force. <i>ACS Nano</i> , 2020 ,	16.7	70

449	Mesostructure of Evaporated Porphyrin Thin Films: Porphyrin Wheel Formation. <i>Journal of Physical Chemistry B</i> , 1997 , 101, 10588-10598	3.4	70
448	Multichromophoric Dendrimers as Single-Photon Sources: A Single-Molecule Study. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 16686-16696	3.4	69
447	Green-to-red photoconvertible Dronpa mutant for multimodal super-resolution fluorescence microscopy. <i>ACS Nano</i> , 2014 , 8, 1664-73	16.7	68
446	Ultrafast excited-state dynamics of the photoswitchable protein Dronpa. <i>Journal of the American Chemical Society</i> , 2007 , 129, 4870-1	16.4	68
445	Higher-excited-state photophysical pathways in multichromophoric systems revealed by single-molecule fluorescence spectroscopy. <i>ChemPhysChem</i> , 2004 , 5, 1786-90	3.2	68
444	Role of glutamine synthetase in angiogenesis beyond glutamine synthesis. <i>Nature</i> , 2018 , 561, 63-69	50.4	68
443	Radical polymerization tracked by single molecule spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 783-7	16.4	67
442	Detection of a Single Dendrimer Macromolecule with a Fluorescent Dihydropyrrolopyrroledione (DPP) Core Embedded in a Thin Polystyrene Polymer Film. <i>Macromolecules</i> , 1998 , 31, 4493-4497	5.5	66
441	Ring Formation in Evaporating Porphyrin Derivative Solutions. <i>Langmuir</i> , 1999 , 15, 3582-3588	4	66
440	Triplet states as non-radiative traps in multichromophoric entities: single molecule spectroscopy of an artificial and natural antenna system. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2001 , 57, 2093-107	4.4	65
439	Influence of Structural and Rotational Isomerism on the Triplet Blinking of Individual Dendrimer Molecules J.H. thanks the FWO for a post-doctoral fellowship. T.V. wishes to thank the I.W.T. for a doctoral fellowship. Financial support by the FWO, the DWTC (through IUAP-4-11), and the Flemish Ministry of Education (through GOA/1/2001) is gratefully acknowledged. The EC (through TMR	16.4	64
438	Synthesis and single enzyme activity of a clicked lipase-BSA hetero-dimer. <i>Chemical Communications</i> , 2006 , 2012-4 Latterini is than. <i>Angewandte Chemie - International Edition</i> , 2001 , 40, 4643-4648	5.8	63
437	The 2018 correlative microscopy techniques roadmap. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 4430051	3.1	63
436	Photoluminescence Blinking of Single-Crystal Methylammonium Lead Iodide Perovskite Nanorods Induced by Surface Traps. <i>ACS Omega</i> , 2016 , 1, 148-159	3.9	62
435	Synthesis and photophysics of core-substituted naphthalene diimides: fluorophores for single molecule applications. <i>Chemistry - an Asian Journal</i> , 2009 , 4, 1542-50	4.5	61
434	Reversible Optical Writing and Data Storage in an Anthracene-Loaded Metal-Organic Framework. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 2423-2427	16.4	61
433	Mapping of surface-enhanced fluorescence on metal nanoparticles using super-resolution photoactivation localization microscopy. <i>ChemPhysChem</i> , 2012 , 13, 973-81	3.2	60
432	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, 13516-7	16.4	60

431	Single Molecule Nanospectroscopy Visualizes Proton-Transfer Processes within a Zeolite Crystal. <i>Journal of the American Chemical Society</i> , 2016 , 138, 13586-13596	16.4	60
430	Single-molecule conformations probe free volume in polymers. <i>Journal of the American Chemical Society</i> , 2004 , 126, 2296-7	16.4	59
429	Indirect tail states formation by thermal-induced polar fluctuations in halide perovskites. <i>Nature Communications</i> , 2019 , 10, 484	17.4	58
428	Ryanodine receptor cluster fragmentation and redistribution in persistent atrial fibrillation enhance calcium release. <i>Cardiovascular Research</i> , 2015 , 108, 387-98	9.9	58
427	Linking phospholipase mobility to activity by single-molecule wide-field microscopy. <i>ChemPhysChem</i> , 2009 , 10, 151-61	3.2	58
426	Second-harmonic generation in GFP-like proteins. <i>Journal of the American Chemical Society</i> , 2008 , 130, 15713-9	16.4	58
425	Fluorescence lifetimes and emission patterns probe the 3D orientation of the emitting chromophore in a multichromophoric system. <i>Journal of the American Chemical Society</i> , 2004 , 126, 14310-14	16.4	58
424	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, 6559-68	16.4	57
423	Do enzymes sleep and work?. <i>Chemical Communications</i> , 2006 , 935-40	5.8	57
422	Microscopic insight into non-radiative decay in perovskite semiconductors from temperature-dependent luminescence blinking. <i>Nature Communications</i> , 2019 , 10, 1698	17.4	56
421	Single Layer vs Bilayer Graphene: A Comparative Study of the Effects of Oxygen Plasma Treatment on Their Electronic and Optical Properties. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 16619-16624	3.8	56
420	Photoluminescence intensity fluctuations and electric-field-induced photoluminescence quenching in individual nanoclusters of poly(phenylenevinylene). <i>ChemPhysChem</i> , 2003 , 4, 260-7	3.2	56
419	Singlet-singlet annihilation in multichromophoric peryleneimide dendrimers, determined by fluorescence upconversion. <i>ChemPhysChem</i> , 2001 , 2, 49-55	3.2	56
418	Aggregation Induced Enhancement of Linear and Nonlinear Optical Emission from a Hexaphenylene Derivative. <i>Advanced Functional Materials</i> , 2016 , 26, 8968-8977	15.6	56
417	A Facet-Specific Quantum Dot Passivation Strategy for Colloid Management and Efficient Infrared Photovoltaics. <i>Advanced Materials</i> , 2019 , 31, e1805580	24	55
416	Hot Electron Tunneling of Metal-Insulator-COF Nanostructures for Efficient Hydrogen Production. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 18290-18294	16.4	55
415	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	3.8	55
414	Control of surface plasmon localization via self-assembly of silver nanoparticles along silver nanowires. <i>Journal of the American Chemical Society</i> , 2008 , 130, 17240-1	16.4	55

4 ¹³	Dynamic disorder and stepwise deactivation in a chymotrypsin catalyzed hydrolysis reaction. <i>Journal of the American Chemical Society</i> , 2007 , 129, 15458-9	16.4	55
4 ¹²	Reversible intramolecular electron transfer at the single-molecule level. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 4209-14	16.4	55
4 ¹¹	Silver Clusters in Zeolites: From Self-Assembly to Ground-Breaking Luminescent Properties. <i>Accounts of Chemical Research</i> , 2017 , 50, 2353-2361	24.3	54
4 ¹⁰	Complementarity of PALM and SOFI for super-resolution live-cell imaging of focal adhesions. <i>Nature Communications</i> , 2016 , 7, 13693	17.4	54
4 ⁰⁹	Tracking Structural Phase Transitions in Lead-Halide Perovskites by Means of Thermal Expansion. <i>Advanced Materials</i> , 2019 , 31, e1900521	24	53
4 ⁰⁸	Visualization of molecular fluorescence point spread functions via remote excitation switching fluorescence microscopy. <i>Nature Communications</i> , 2015 , 6, 6287	17.4	53
4 ⁰⁷	N Electroreduction to NH by Selenium Vacancy-Rich ReSe Catalysis at an Abrupt Interface. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 13320-13327	16.4	53
4 ⁰⁶	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, 13192-3	16.4	53
4 ⁰⁵	Emission properties of oxyluciferin and its derivatives in water: revealing the nature of the emissive species in firefly bioluminescence. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 2638-49	3.4	52
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