

Michael U Kumke

List of Publications by Year in descending order

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98
papers

2,643
citations

249298

26
h-index

232693

48
g-index

101
all docs

101
docs citations

101
times ranked

4595
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of Gd ³⁺ doping concentration on the properties of Na(Y,Gd)F ₄ :Yb ³⁺ , Tm ³⁺ upconverting nanoparticles and their long-term aging behavior. <i>Photochemical and Photobiological Sciences</i> , 2022, 21, 235-245.	1.6	4
2	Quenching Mechanism of Uranyl(VI) by Chloride and Bromide in Aqueous and Non-Aqueous Solutions. <i>Journal of Physical Chemistry A</i> , 2021, 125, 4380-4389.	1.1	4
3	Resonance Energy Transfer to Track the Motion of Lanthanide Ions—What Drives the Intermixing in Core-Shell Upconverting Nanoparticles?. <i>Biosensors</i> , 2021, 11, 515.	2.3	1
4	Bioinspired Confinement of Upconversion Nanoparticles for Improved Performance in Aqueous Solution. <i>Journal of Physical Chemistry C</i> , 2020, 124, 28623-28635.	1.5	6
5	Investigating the Sulfur “Twist” on the Photophysics of DBD Dyes. <i>Journal of Physical Chemistry A</i> , 2020, 124, 4345-4353.	1.1	3
6	Europium-Doped Ceria—Gadolinium Mixed Oxides: PARAFAC Analysis and High-Resolution Emission Spectroscopy under Cryogenic Conditions for Structural Analysis. <i>Journal of Physical Chemistry A</i> , 2020, 124, 4972-4983.	1.1	4
7	Combination of single-molecule magnet behaviour and luminescence properties in a new series of lanthanide complexes with tris(pyrazolyl)borate and oligo(<i>i</i> ² -diketonate) ligands. <i>Dalton Transactions</i> , 2020, 49, 7774-7789.	1.6	17
8	Tracking the Motion of Lanthanide Ions within Core—Shell—Shell NaYF ₄ Nanocrystals via Resonance Energy Transfer. <i>Journal of Physical Chemistry C</i> , 2020, 124, 11229-11238.	1.5	13
9	pH-Sensitive Fluorescence Switching of Pyridylanthracenes: The Effect of the Isomeric Pattern. <i>Journal of Physical Chemistry A</i> , 2020, 124, 11017-11024.	1.1	2
10	Photophysics of Acyl- and Ester-DBD Dyes: Quadrupole-Induced Solvent Relaxation Investigated by Transient Absorption Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2019, 123, 4717-4726.	1.1	3
11	Interdisciplinary Round-Robin Test on Molecular Spectroscopy of the U(VI) Acetate System. <i>ACS Omega</i> , 2019, 4, 8167-8177.	1.6	5
12	Lanthanide Luminescence Revealing the Phase Composition in Hydrating Cementitious Systems. <i>ChemistryOpen</i> , 2019, 8, 1441-1452.	0.9	1
13	Photo-isomerization of azobenzene containing surfactants induced by near-infrared light using upconversion nanoparticles as mediator. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 125201.	0.7	7
14	Energy Transfer between Tm-Doped Upconverting Nanoparticles and a Small Organic Dye with Large Stokes Shift. <i>Biosensors</i> , 2019, 9, 9.	2.3	18
15	Rapid Synthesis of Sub-100-nm Hexagonal NaYF ₄ -Based Upconverting Nanoparticles using Thermolysis. <i>ChemistryOpen</i> , 2018, 7, 159-168.	0.9	18
16	Dye Tool Box for a Fluorescence Enhancement Immunoassay. <i>Bioconjugate Chemistry</i> , 2018, 29, 203-214.	1.8	3
17	Intramolecular deactivation processes of electronically excited Lanthanide(III) complexes with organic acids of low molecular weight. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 191, 36-49.	2.0	7
18	Antibody Binding at the Liposome—Water Interface: A FRET Investigation toward a Liposome-Based Assay. <i>ACS Omega</i> , 2018, 3, 18109-18116.	1.6	4

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19	Hydrophobic Properties of Calcium-Silicate Hydrates Doped with Rare-Earth Elements. ACS Sustainable Chemistry and Engineering, 2018, 6, 14669-14678.	3.2	13
20	Ultrafast Transient Absorption Spectroscopy of UO ₂ ²⁺ and [UO ₂ Cl] ⁺ . Journal of Physical Chemistry A, 2018, 122, 6970-6977.	1.1	8
21	Photophysics of "Floppy" Dyads as Potential Biomembrane Probes. Journal of Fluorescence, 2018, 28, 1225-1237.	1.3	1
22	Lifetime-Based Oxygen Sensing Properties of palladium(II) and platinum(II) meso-tetrakis(4-phenylethynyl)phenylporphyrin. Journal of Fluorescence, 2017, 27, 861-868.	1.3	21
23	Dynamics of metal-humate complexation equilibria as revealed by isotope exchange studies " a matter of concentration and time. Geochimica Et Cosmochimica Acta, 2017, 197, 62-70.	1.6	4
24	Monitoring the Collapse of pH-Sensitive Liposomal Nanocarriers and Environmental pH Simultaneously: A Fluorescence-Based Approach. Molecular Pharmaceutics, 2016, 13, 1608-1617.	2.3	17
25	Rigid Rod-Based FRET Probes for Membrane Sensing Applications. Journal of Physical Chemistry B, 2016, 120, 9935-9943.	1.2	12
26	Front Cover: FRET Pairs with Fixed Relative Orientation of Chromophores (Eur. J. Org. Chem. 26/2016). European Journal of Organic Chemistry, 2016, 2016, 4436-4436.	1.2	0
27	FRET Pairs with Fixed Relative Orientation of Chromophores. European Journal of Organic Chemistry, 2016, 2016, 4476-4486.	1.2	15
28	Insight into the Modification of Polymeric Micellar and Liposomal Nanocarriers by Fluorescein-Labeled Lipids and Uptake-Mediating Lipopeptides. Langmuir, 2016, 32, 6928-6939.	1.6	11
29	Single-fluorophore membrane transport activity sensors with dual-emission read-out. ELife, 2015, 4, e07113.	2.8	13
30	Upconversion Luminescence Properties of NaYF ₄ :Yb:Er Nanoparticles Codoped with Gd ³⁺ . Journal of Physical Chemistry C, 2015, 119, 3363-3373.	1.5	105
31	Bright or dark immune complexes of anti-TAMRA antibodies for adapted fluorescence-based bioanalysis. Analytical and Bioanalytical Chemistry, 2015, 407, 3313-3323.	1.9	7
32	White light emission of IFP-1 by in situ co-doping of the MOF pore system with Eu ³⁺ and Tb ³⁺ . Journal of Materials Chemistry C, 2015, 3, 4623-4631.	2.7	38
33	Fluorescence Line-Narrowing Spectroscopy as a Tool to Monitor Phase Transitions and Phase Separation in Efficient Nanocrystalline CexZr1-xO2:Eu3+ Catalyst Materials. Journal of Physical Chemistry C, 2015, 119, 10682-10692.	1.5	11
34	Architecture of Polyglutamine-containing Fibrils from Time-resolved Fluorescence Decay. Journal of Biological Chemistry, 2014, 289, 26817-26828.	1.6	9
35	Fluorescence lifetime-based sensing of sodium by an optode. Chemical Communications, 2014, 50, 14167-14170.	2.2	23
36	Mini-scale cultivation method enables expeditious plasmid production in Escherichia coli. Biotechnology Journal, 2014, 9, 128-136.	1.8	17

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37	Probing the physicochemical interactions of 3-hydroxy-benzo[a]pyrene with different monoclonal and recombinant antibodies by use of fluorescence line-narrowing spectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 3387-3394.	1.9	4
38	Formation of a Eu(III) borate solid species from a weak Eu(III) borate complex in aqueous solution. <i>Dalton Transactions</i> , 2014, 43, 11516-11528.	1.6	45
39	High-Resolution Spectroscopy of Europium-Doped Ceria as a Tool To Correlate Structure and Catalytic Activity. <i>Journal of Physical Chemistry C</i> , 2014, 118, 23349-23360.	1.5	12
40	Characterization of Cell-Penetrating Lipopeptide Micelles by Spectroscopic Methods. <i>Journal of Physical Chemistry B</i> , 2013, 117, 14215-14225.	1.2	10
41	Synthesis and Spectroscopic Characterization of Fluorophore-Labeled Oligospiroketal Rods. <i>Helvetica Chimica Acta</i> , 2013, 96, 2046-2067.	1.0	8
42	Surface mechanism of the boron adsorption on alumina in aqueous solutions. <i>Desalination and Water Treatment</i> , 2013, 51, 6130-6136.	1.0	25
43	Fluorescent sensors reporting the activity of ammonium transporters in live cells. <i>ELife</i> , 2013, 2, e00800.	2.8	53
44	Fluorescence study of drug-carrier interactions in CTAB/PBS buffer model systems. <i>Journal of Colloid and Interface Science</i> , 2012, 377, 251-261.	5.0	31
45	Dye Dynamics in Three-Color FRET Samples. <i>Journal of Physical Chemistry B</i> , 2012, 116, 10798-10806.	1.2	15
46	Nanoparticles and their influence on radionuclide mobility in deep geological formations. <i>Applied Geochemistry</i> , 2012, 27, 390-403.	1.4	61
47	Diffusion, degradation or on-site stabilisation – Identifying causes of kinetic processes involved in metal-humate complexation. <i>Applied Geochemistry</i> , 2012, 27, 250-256.	1.4	8
48	Flash Photolysis Study of Complexes between Salicylic Acid and Lanthanide Ions in Water. <i>Journal of Physical Chemistry A</i> , 2012, 116, 1176-1182.	1.1	11
49	A transparent, flexible, ion conductive, and luminescent PMMA ionogel based on a Pt/Eu bimetallic complex and the ionic liquid [Bmim][N(Tf) ₂]. <i>Journal of Materials Chemistry</i> , 2012, 22, 8110.	6.7	54
50	Verification and Biophysical Characterization of a New Three-Color Förster Resonance Energy Transfer (FRET) System in DNA. <i>Helvetica Chimica Acta</i> , 2012, 95, 543-555.	1.0	5
51	Ultrasonic Approach for Formation of Erbium Oxide Nanoparticles with Variable Geometries. <i>Langmuir</i> , 2011, 27, 14472-14480.	1.6	19
52	Oxazine Dye-Conjugated DNA Oligonucleotides: Förster Resonance Energy Transfer in View of Molecular Dye-DNA Interactions. <i>Bioconjugate Chemistry</i> , 2011, 22, 2546-2557.	1.8	21
53	Novel Three-Color FRET Tool Box for Advanced Protein and DNA Analysis. <i>Bioconjugate Chemistry</i> , 2011, 22, 1852-1863.	1.8	18
54	Toward sensitive, quantitative point-of-care testing (POCT) of protein markers: miniaturization of a homogeneous time-resolved fluoroimmunoassay for prostate-specific antigen detection. <i>Analyst</i> , The, 2011, 136, 1029-1035.	1.7	17

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55	Spectroscopic investigations on the effect of humic acid on the formation and solubility of secondary solid phases of Ln ₂ (CO ₃) ₃ . <i>Journal of Rare Earths</i> , 2011, 29, 516-521.	2.5	5
56	Direct Spectroscopic Evidence of 8- and 9-fold Coordinated Europium(III) Species in H ₂ O and D ₂ O. <i>Journal of Physical Chemistry A</i> , 2010, 114, 13050-13054.	1.1	24
57	Determination of aflatoxin B1 in alcoholic beverages: comparison of one- and two-photon-induced fluorescence. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 397, 87-92.	1.9	22
58	Sensing of Mycotoxin Producing Fungi in the Processing of Grains. <i>Food and Bioprocess Technology</i> , 2010, 3, 908-916.	2.6	37
59	Intramolecular deactivation processes in complexes of salicylic acid or glycolic acid with Eu(III). <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2010, 75, 1333-1340.	2.0	34
60	Structural and photoluminescence characterization of mesoporous silicon-phosphates. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2010, 215, 17-24.	2.0	2
61	Time-resolved fluorescence measurements of cyanine dyes in biomimetic systems. <i>Proceedings of SPIE</i> , 2010, , .	0.8	0
62	Novel Intramolecular Energy Transfer Probe for the Detection of Benzo[a]pyrene Metabolites in a Homogeneous Competitive Fluorescence Immunoassay. <i>Journal of Physical Chemistry B</i> , 2010, 114, 1666-1673.	1.2	18
63	Temperature Switch of LMCT Role: From Quenching to Sensitization of Europium Emission in a Zn ^{II} Eu ^{III} Binuclear Complex. <i>Inorganic Chemistry</i> , 2010, 49, 2310-2315.	1.9	86
64	Polymer-Induced Self-Assembly of Small Organic Molecules into Ultralong Microbelts with Electronic Conductivity. <i>Journal of the American Chemical Society</i> , 2010, 132, 3700-3707.	6.6	88
65	Photophysical Characterization of a FRET System Using Tailor-Made DNA Oligonucleotide Sequences. <i>Bioconjugate Chemistry</i> , 2010, 21, 2347-2354.	1.8	16
66	Polymer-µ porous host interactions probed by photoluminescence spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 3031.	1.3	2
67	Metal Binding by Humic Substances µ Characterization by High-Resolution Lanthanoid Ion Probe Spectroscopy (HR-LIPS). <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2009, 64, 242-250.	0.7	2
68	Comparative Studies of Different Quinolinone Derivatives as Donors in Fluorescence-Resonance-Energy Transfer (FRET) µ Systems in Combination with a (Bathophenanthroline)ruthenium(II) Complex as Acceptor. <i>Helvetica Chimica Acta</i> , 2009, 92, 1933-1943.	1.0	11
69	High-resolution steady-state and time-resolved luminescence studies on the complexes of Eu(III) with aromatic or aliphatic carboxylic acids. <i>Analytica Chimica Acta</i> , 2009, 652, 285-294.	2.6	36
70	Influence of Streptavidin on the Absorption and Fluorescence Properties of Cyanine Dyes. <i>Bioconjugate Chemistry</i> , 2009, 20, 576-582.	1.8	26
71	Spectroscopic characterization of the competitive binding of Eu(III), Ca(II), and Cu(II) to a sedimentary originated humic acid. <i>Chemical Geology</i> , 2009, 264, 154-161.	1.4	41
72	Tuning of the Excited-State Properties and Photovoltaic Performance in PPV-Based Polymer Blends. <i>Journal of Physical Chemistry C</i> , 2008, 112, 14607-14617.	1.5	33

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73	Dehydration and rehydration effects on the photoluminescence properties of terbium-exchanged MFI-type materials. <i>Journal of Non-Crystalline Solids</i> , 2008, 354, 1969-1975.	1.5	5
74	Spectroscopic investigations of complexes between Eu(III) and aromatic carboxylic ligands. <i>Journal of Alloys and Compounds</i> , 2008, 451, 361-364.	2.8	7
75	Quenching of the long-lived Ru(II) bathophenanthroline luminescence for the detection of supramolecular interactions. <i>Organic and Biomolecular Chemistry</i> , 2008, 6, 2355.	1.5	11
76	Combining Spectroscopic and Potentiometric Approaches to Characterize Competitive Binding to Humic Substances. <i>Environmental Science & Technology</i> , 2008, 42, 5094-5098.	4.6	40
77	innoFSPEC: fiber optical spectroscopy and sensing. <i>Proceedings of SPIE</i> , 2008, , .	0.8	3
78	Photophysics of Ochratoxin A in Aqueous Solution. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2008, 63, 1321-1326.	0.3	10
79	Relation between exciplex formation and photovoltaic properties of PPV polymer-based blends. <i>Solar Energy Materials and Solar Cells</i> , 2007, 91, 411-415.	3.0	18
80	Phase Separation of Binary Blends in Polymer Nanoparticles. <i>Small</i> , 2007, 3, 1041-1048.	5.2	96
81	Photoluminescence Response of Terbium-Exchanged MFI-Type Materials to Si/Al Ratio, Texture, and Hydration State. <i>Journal of Physical Chemistry B</i> , 2006, 110, 25707-25715.	1.2	14
82	Spectroscopic Characterization of the Artificial Siderophore Pyridinochelin. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , 2006, 61, 741-748.	0.6	2
83	Pentanuclear Heterobimetallic 3d-4f-Complexes " Structure and Luminescence. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2006, 632, 1963-1965.	0.6	11
84	Examples of the application of optical process and quality sensing (OPQS) to beer brewing and polyurethane foaming processes. <i>Analytical and Bioanalytical Chemistry</i> , 2006, 384, 1107-1112.	1.9	15
85	Polyproline and the "spectroscopic ruler" revisited with single-molecule fluorescence. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 2754-2759.	3.3	422
86	Fluorescence Quenching and Luminescence Sensitization in Complexes of Tb ³⁺ and Eu ³⁺ with Humic Substances. <i>Environmental Science & Technology</i> , 2005, 39, 9528-9533.	4.6	40
87	Time-resolved photoluminescence analysis of distribution and migration of terbium ions in zeolites X. <i>Physica B: Condensed Matter</i> , 2004, 352, 358-365.	1.3	8
88	A Nanoparticle Approach To Control the Phase Separation in Polyfluorene Photovoltaic Devices. <i>Macromolecules</i> , 2004, 37, 4882-4890.	2.2	144
89	Optical properties of terbium-doped thiosalicylic-capped CdS nanocrystals. <i>Chemical Physics Letters</i> , 2003, 377, 131-136.	1.2	9
90	Comparative Study of Time-Resolved Photoluminescence Properties of Terbium-Doped Thiosalicylic-Capped CdS and ZnS Nanocrystals. <i>Journal of Physical Chemistry B</i> , 2003, 107, 12153-12160.	1.2	26

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91	Aqueous Solutions of Uranium(VI) as Studied by Time-Resolved Emission Spectroscopy: A Round-Robin Test. <i>Applied Spectroscopy</i> , 2003, 57, 1027-1038.	1.2	54
92	Sorption of Pyrene to Dissolved Humic Substances and Related Model Polymers. 2. Solid-Phase Microextraction (SPME) and Fluorescence Quenching Technique (FQT) as Analytical Methods. <i>Environmental Science & Technology</i> , 2002, 36, 4403-4409.	4.6	38
93	Removal of hydrophilic compounds from water with organic polymers. <i>Chemical Engineering and Processing: Process Intensification</i> , 2002, 41, 731-736.	1.8	4
94	Alkaline hydrolysis of humic substances – spectroscopic and chromatographic investigations. <i>Chemosphere</i> , 2001, 45, 1023-1031.	4.2	43
95	Influence of photochemical reactions on the complexation of humic acid with europium(III). <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2001, 138, 55-63.	2.0	34
96	Sorption of phenols to dissolved organic matter investigated by solid phase microextraction. <i>Science of the Total Environment</i> , 2000, 253, 63-74.	3.9	113
97	Influence of Chlorination on Chromophores and Fluorophores in Humic Substances. <i>Environmental Science & Technology</i> , 1999, 33, 1207-1212.	4.6	121
98	FLUORESCENCE DECAY OF HUMIC SUBSTANCES. A COMPARATIVE STUDY. , 1998, , 113-122.		8