## Michael U Kumke

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Influence of Gd3+ doping concentration on the properties of Na(Y,Gd)F4:Yb3+, Tm3+ upconverting nanoparticles and their long-term aging behavior. Photochemical and Photobiological Sciences, 2022, 21, 235-245.	2.9	4
2	Quenching Mechanism of Uranyl(VI) by Chloride and Bromide in Aqueous and Non-Aqueous Solutions. Journal of Physical Chemistry A, 2021, 125, 4380-4389.	2.5	4
3	Resonance Energy Transfer to Track the Motion of Lanthanide Ions—What Drives the Intermixing in Core-Shell Upconverting Nanoparticles?. Biosensors, 2021, 11, 515.	4.7	1
4	Bioinspired Confinement of Upconversion Nanoparticles for Improved Performance in Aqueous Solution. Journal of Physical Chemistry C, 2020, 124, 28623-28635.	3.1	6
5	Investigating the Sulfur "Twist―on the Photophysics of DBD Dyes. Journal of Physical Chemistry A, 2020, 124, 4345-4353.	2.5	3
6	Europium-Doped Ceria–Gadolinium Mixed Oxides: PARAFAC Analysis and High-Resolution Emission Spectroscopy under Cryogenic Conditions for Structural Analysis. Journal of Physical Chemistry A, 2020, 124, 4972-4983.	2.5	4
7	Combination of single-molecule magnet behaviour and luminescence properties in a new series of lanthanide complexes with tris(pyrazolyl)borate and oligo(β-diketonate) ligands. Dalton Transactions, 2020, 49, 7774-7789.	3.3	17
8	Tracking the Motion of Lanthanide Ions within Core–Shell–Shell NaYF4 Nanocrystals via Resonance Energy Transfer. Journal of Physical Chemistry C, 2020, 124, 11229-11238.	3.1	13
9	pH-Sensitive Fluorescence Switching of Pyridylanthracenes: The Effect of the Isomeric Pattern. Journal of Physical Chemistry A, 2020, 124, 11017-11024.	2.5	2
10	Photophysics of Acyl- and Ester-DBD Dyes: Quadrupole-Induced Solvent Relaxation Investigated by Transient Absorption Spectroscopy. Journal of Physical Chemistry A, 2019, 123, 4717-4726.	2.5	3
11	Interdisciplinary Round-Robin Test on Molecular Spectroscopy of the U(VI) Acetate System. ACS Omega, 2019, 4, 8167-8177.	3.5	5
12	Lanthanide Luminescence Revealing the Phase Composition in Hydrating Cementitious Systems. ChemistryOpen, 2019, 8, 1441-1452.	1.9	1
13	Photo-isomerization of azobenzene containing surfactants induced by near-infrared light using upconversion nanoparticles as mediator. Journal of Physics Condensed Matter, 2019, 31, 125201.	1.8	7
14	Energy Transfer between Tm-Doped Upconverting Nanoparticles and a Small Organic Dye with Large Stokes Shift. Biosensors, 2019, 9, 9.	4.7	18
15	Rapid Synthesis of Subâ€10â€nm Hexagonal NaYF <sub>4</sub> â€Based Upconverting Nanoparticles using Therminol <sup>®</sup> â€66. ChemistryOpen, 2018, 7, 159-168.	1.9	18
16	Dye Tool Box for a Fluorescence Enhancement Immunoassay. Bioconjugate Chemistry, 2018, 29, 203-214.	3.6	3
17	Intramolecular deactivation processes of electronically excited Lanthanide(III) complexes with organic acids of low molecular weight. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 191, 36-49.	3.9	7
18	Antibody Binding at the Liposome–Water Interface: A FRET Investigation toward a Liposome-Based Assay. ACS Omega, 2018, 3, 18109-18116.	3.5	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.	6.7	13
20	Ultrafast Transient Absorption Spectroscopy of UO22+ and [UO2Cl]+. Journal of Physical Chemistry A, 2018, 122, 6970-6977.	2.5	8
21	Photophysics of "Floppy―Dyads as Potential Biomembrane Probes. Journal of Fluorescence, 2018, 28, 1225-1237.	2.5	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.	2.5	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.	3.9	4
24	Monitoring the Collapse of pH-Sensitive Liposomal Nanocarriers and Environmental pH Simultaneously: A Fluorescence-Based Approach. Molecular Pharmaceutics, 2016, 13, 1608-1617.	4.6	17
25	Rigid Rod-Based FRET Probes for Membrane Sensing Applications. Journal of Physical Chemistry B, 2016, 120, 9935-9943.	2.6	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.	2.4	0
27	FRET Pairs with Fixed Relative Orientation of Chromophores. European Journal of Organic Chemistry, 2016, 2016, 4476-4486.	2.4	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.	3.5	11
29	Single-fluorophore membrane transport activity sensors with dual-emission read-out. ELife, 2015, 4, e07113.	6.0	13
30	Upconversion Luminescence Properties of NaYF <sub>4</sub> :Yb:Er Nanoparticles Codoped with Gd <sup>3+</sup> . Journal of Physical Chemistry C, 2015, 119, 3363-3373.	3.1	105
31	Bright or dark immune complexes of anti-TAMRA antibodies for adapted fluorescence-based bioanalysis. Analytical and Bioanalytical Chemistry, 2015, 407, 3313-3323.	3.7	7
32	White light emission of IFP-1 by in situ co-doping of the MOF pore system with Eu <sup>3+</sup> and Tb <sup>3+</sup> . Journal of Materials Chemistry C, 2015, 3, 4623-4631.	5.5	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.	3.1	11
34	Architecture of Polyglutamine-containing Fibrils from Time-resolved Fluorescence Decay. Journal of Biological Chemistry, 2014, 289, 26817-26828.	3.4	9
35	Fluorescence lifetime-based sensing of sodium by an optode. Chemical Communications, 2014, 50, 14167-14170.	4.1	23
36	Miniâ€scale cultivation method enables expeditious plasmid production in <i>Escherichia coli</i> . Biotechnology Journal, 2014, 9, 128-136.	3.5	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. Analytical and Bioanalytical Chemistry, 2014, 406, 3387-3394.	3.7	4
38	Formation of a Eu( <scp>iii</scp> ) borate solid species from a weak Eu( <scp>iii</scp> ) borate complex in aqueous solution. Dalton Transactions, 2014, 43, 11516-11528.	3.3	45
39	High-Resolution Spectroscopy of Europium-Doped Ceria as a Tool To Correlate Structure and Catalytic Activity. Journal of Physical Chemistry C, 2014, 118, 23349-23360.	3.1	12
40	Characterization of Cell-Penetrating Lipopeptide Micelles by Spectroscopic Methods. Journal of Physical Chemistry B, 2013, 117, 14215-14225.	2.6	10
41	Synthesis and Spectroscopic Characterization of Fluorophore‣abeled Oligospiroketal Rods. Helvetica Chimica Acta, 2013, 96, 2046-2067.	1.6	8
42	Surface mechanism of the boron adsorption on alumina in aqueous solutions. Desalination and Water Treatment, 2013, 51, 6130-6136.	1.0	25
43	Fluorescent sensors reporting the activity of ammonium transceptors in live cells. ELife, 2013, 2, e00800.	6.0	53
44	Fluorescence study of drug–carrier interactions in CTAB/PBS buffer model systems. Journal of Colloid and Interface Science, 2012, 377, 251-261.	9.4	31
45	Dye Dynamics in Three-Color FRET Samples. Journal of Physical Chemistry B, 2012, 116, 10798-10806.	2.6	15
46	Nanoparticles and their influence on radionuclide mobility in deep geological formations. Applied Geochemistry, 2012, 27, 390-403.	3.0	61
47	Diffusion, degradation or on-site stabilisation – Identifying causes of kinetic processes involved in metal–humate complexation. Applied Geochemistry, 2012, 27, 250-256.	3.0	8
48	Flash Photolysis Study of Complexes between Salicylic Acid and Lanthanide Ions in Water. Journal of Physical Chemistry A, 2012, 116, 1176-1182.	2.5	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]. Journal of Materials Chemistry, 2012, 22, 8110.	6.7	54
50	Verification and Biophysical Characterization of a New Threeâ€Color <i>Förster</i> Resonanceâ€Energyâ€Transfer (FRET) System in DNA. Helvetica Chimica Acta, 2012, 95, 543-555.	1.6	5
51	Ultrasonic Approach for Formation of Erbium Oxide Nanoparticles with Variable Geometries. Langmuir, 2011, 27, 14472-14480.	3.5	19
52	Oxazine Dye-Conjugated DNA Oligonucleotides: Förster Resonance Energy Transfer in View of Molecular Dye–DNA Interactions. Bioconjugate Chemistry, 2011, 22, 2546-2557.	3.6	21
53	Novel Three-Color FRET Tool Box for Advanced Protein and DNA Analysis. Bioconjugate Chemistry, 2011, 22, 1852-1863.	3.6	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. Analyst, The, 2011, 136, 1029-1035.	3.5	17

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55	Spectroscopic investigations on the effect of humic acid on the formation and solubility of secondary solid phases of Ln2(CO3)3. Journal of Rare Earths, 2011, 29, 516-521.	4.8	5
56	Direct Spectroscopic Evidence of 8- and 9-fold Coordinated Europium(III) Species in H <sub>2</sub> O and D <sub>2</sub> O. Journal of Physical Chemistry A, 2010, 114, 13050-13054.	2.5	24
57	Determination of aflatoxin B1 in alcoholic beverages: comparison of one- and two-photon-induced fluorescence. Analytical and Bioanalytical Chemistry, 2010, 397, 87-92.	3.7	22
58	Sensing of Mycotoxin Producing Fungi in the Processing of Grains. Food and Bioprocess Technology, 2010, 3, 908-916.	4.7	37
59	Intramolecular deactivation processes in complexes of salicylic acid or glycolic acid with Eu(III). Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2010, 75, 1333-1340.	3.9	34
60	Structural and photoluminescence characterization of mesoporous silicon-phosphates. Journal of Photochemistry and Photobiology A: Chemistry, 2010, 215, 17-24.	3.9	2
61	Time-resolved fluorescence measurements of cyanine dyes in biomimetic systems. Proceedings of SPIE, 2010, , .	0.8	Ο
62	Novel Intramolecular Energy Transfer Probe for the Detection of Benzo[a]pyrene Metabolites in a Homogeneous Competitive Fluorescence Immunoassay. Journal of Physical Chemistry B, 2010, 114, 1666-1673.	2.6	18
63	Temperature Switch of LMCT Role: From Quenching to Sensitization of Europium Emission in a Zn <sup>II</sup> â^'Eu <sup>III</sup> Binuclear Complex. Inorganic Chemistry, 2010, 49, 2310-2315.	4.0	86
64	Polymer-Induced Self-Assembly of Small Organic Molecules into Ultralong Microbelts with Electronic Conductivity. Journal of the American Chemical Society, 2010, 132, 3700-3707.	13.7	88
65	Photophysical Characterization of a FRET System Using Tailor-Made DNA Oligonucleotide Sequences. Bioconjugate Chemistry, 2010, 21, 2347-2354.	3.6	16
66	Polymer–microporous host interactions probed by photoluminescence spectroscopy. Physical Chemistry Chemical Physics, 2010, 12, 3031.	2.8	2
67	Metal Binding by Humic Substances – Characterization by High-Resolution Lanthanoide Ion Probe Spectroscopy (HR-LIPS). Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2009, 64, 242-250.	1.5	2
68	Comparative Studies of Different Quinolinone Derivatives as Donors in Fluorescenceâ€Resonanceâ€Energy Transfer (FRET) – Systems in Combination with a (Bathophenanthroline)ruthenium(II) Complex as Acceptor. Helvetica Chimica Acta, 2009, 92, 1933-1943.	1.6	11
69	High-resolution steady-state and time-resolved luminescence studies on the complexes of Eu(III) with aromatic or aliphatic carboxylic acids. Analytica Chimica Acta, 2009, 652, 285-294.	5.4	36
70	Influence of Streptavidin on the Absorption and Fluorescence Properties of Cyanine Dyes. Bioconjugate Chemistry, 2009, 20, 576-582.	3.6	26
71	Spectroscopic characterization of the competitive binding of Eu(III), Ca(II), and Cu(II) to a sedimentary originated humic acid. Chemical Geology, 2009, 264, 154-161.	3.3	41
72	Tuning of the Excited-State Properties and Photovoltaic Performance in PPV-Based Polymer Blends. Journal of Physical Chemistry C, 2008, 112, 14607-14617.	3.1	33

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73	Dehydration and rehydration effects on the photoluminescence properties of terbium-exchanged MFI-type materials. Journal of Non-Crystalline Solids, 2008, 354, 1969-1975.	3.1	5
74	Spectroscopic investigations of complexes between Eu(III) and aromatic carboxylic ligands. Journal of Alloys and Compounds, 2008, 451, 361-364.	5.5	7
75	Quenching of the long-lived Ru(ii)bathophenanthroline luminescence for the detection of supramolecular interactions. Organic and Biomolecular Chemistry, 2008, 6, 2355.	2.8	11
76	Combining Spectroscopic and Potentiometric Approaches to Characterize Competitive Binding to Humic Substances. Environmental Science & Technology, 2008, 42, 5094-5098.	10.0	40
77	innoFSPEC: fiber optical spectroscopy and sensing. Proceedings of SPIE, 2008, , .	0.8	3
78	Photophysics of Ochratoxin A in Aqueous Solution. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2008, 63, 1321-1326.	0.7	10
79	Relation between exciplex formation and photovoltaic properties of PPV polymer-based blends. Solar Energy Materials and Solar Cells, 2007, 91, 411-415.	6.2	18
80	Phase Separation of Binary Blends in Polymer Nanoparticles. Small, 2007, 3, 1041-1048.	10.0	96
81	Photoluminescence Response of Terbium-Exchanged MFI-Type Materials to Si/Al Ratio, Texture, and Hydration State. Journal of Physical Chemistry B, 2006, 110, 25707-25715.	2.6	14
82	Spectroscopic Characterization of the Artificial Siderophore Pyridinochelin. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 2006, 61, 741-748.	1.4	2
83	Pentanuclear Heterobimetallic 3d-4f-Complexes – Structure and Luminescence. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2006, 632, 1963-1965.	1.2	11
84	Examples of the application of optical process and quality sensing (OPQS) to beer brewing and polyurethane foaming processes. Analytical and Bioanalytical Chemistry, 2006, 384, 1107-1112.	3.7	15
85	Polyproline and the "spectroscopic ruler" revisited with single-molecule fluorescence. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 2754-2759.	7.1	422
86	Fluorescence Quenching and Luminescence Sensitization in Complexes of Tb3+and Eu3+with Humic Substances. Environmental Science & Technology, 2005, 39, 9528-9533.	10.0	40
87	Time-resolved photoluminescence analysis of distribution and migration of terbium ions in zeolites X. Physica B: Condensed Matter, 2004, 352, 358-365.	2.7	8
88	A Nanoparticle Approach To Control the Phase Separation in Polyfluorene Photovoltaic Devices. Macromolecules, 2004, 37, 4882-4890.	4.8	144
89	Optical properties of terbium-doped thiosalicylic-capped CdS nanocrystals. Chemical Physics Letters, 2003, 377, 131-136.	2.6	9
90	Comparative Study of Time-Resolved Photoluminescence Properties of Terbium-Doped Thiosalicylic-Capped CdS and ZnS Nanocrystals. Journal of Physical Chemistry B, 2003, 107, 12153-12160.	2.6	26

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91	Aqueous Solutions of Uranium(VI) as Studied by Time-Resolved Emission Spectroscopy: A Round-Robin Test. Applied Spectroscopy, 2003, 57, 1027-1038.	2.2	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. Environmental Science & Technology, 2002, 36, 4403-4409.	10.0	38
93	Removal of hydrophilic compounds from water with organic polymers. Chemical Engineering and Processing: Process Intensification, 2002, 41, 731-736.	3.6	4
94	Alkaline hydrolysis of humic substances – spectroscopic and chromatographic investigations. Chemosphere, 2001, 45, 1023-1031.	8.2	43
95	Influence of photochemical reactions on the complexation of humic acid with europium(III). Journal of Photochemistry and Photobiology A: Chemistry, 2001, 138, 55-63.	3.9	34
96	Sorption of phenols to dissolved organic matter investigated by solid phase microextraction. Science of the Total Environment, 2000, 253, 63-74.	8.0	113
97	Influence of Chlorination on Chromophores and Fluorophores in Humic Substances. Environmental Science & amp; Technology, 1999, 33, 1207-1212.	10.0	121
98	FLUORESCENCE DECAY OF HUMIC SUBSTANCES. A COMPARATIVE STUDY. , 1998, , 113-122.		8