

Thomas Just Sørensen

List of Publications by Year in descending order

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114
papers

2,967
citations

159585

30
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197818

49
g-index

143
all docs

143
docs citations

143
times ranked

3222
citing authors

#	ARTICLE	IF	CITATIONS
1	Physical unclonable functions generated through chemical methods for anti-counterfeiting. <i>Nature Reviews Chemistry</i> , 2017, 1, .	30.2	409
2	An optical authentication system based on imaging of excitation-selected lanthanide luminescence. <i>Science Advances</i> , 2018, 4, e1701384.	10.3	143
3	Versatile and Validated Optical Authentication System Based on Physical Unclonable Functions. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 6475-6482.	8.0	84
4	Elimination of autofluorescence background from fluorescence tissue images by use of time-gated detection and the AzaDiOxaTriAngulenium (ADOTA) fluorophore. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 2065-2075.	3.7	79
5	Bimetallic lanthanide complexes that display a ratiometric response to oxygen concentrations. <i>Chemical Science</i> , 2015, 6, 2054-2059.	7.4	71
6	Complexation between Methyl Viologen (Paraquat) Bis(Hexafluorophosphate) and Dibenzo[24]Crownâ€8 Revisited. <i>Chemistry - A European Journal</i> , 2009, 15, 106-116.	3.3	64
7	Introducing a standard method for experimental determination of the solvent response in laser pump, X-ray probe time-resolved wide-angle X-ray scattering experiments on systems in solution. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 15003-15016.	2.8	62
8	Synthesis of Super Stable Triangulenium Dye. <i>Journal of Organic Chemistry</i> , 2009, 74, 3183-3185.	3.2	56
9	Luminescence and upconversion from thulium(iii) species in solution. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 13378.	2.8	55
10	Preparation and study of an f,f,â€²,â€² covalently linked tetranuclear hetero-trimetallic complex â€“ a europium, terbium, dysprosium triad. <i>Chemical Communications</i> , 2013, 49, 783-785.	4.1	55
11	Multimetallic Lanthanide Complexes: Using Kinetic Control To Define Complex Multimetallic Arrays. <i>Accounts of Chemical Research</i> , 2018, 51, 2493-2501.	15.6	53
12	Composed in the f-block: solution structure and function of kinetically inert lanthanide(<i>iii</i>) complexes. <i>Dalton Transactions</i> , 2018, 47, 10360-10376.	3.3	51
13	Polarization and Symmetry of Electronic Transitions in Long Fluorescence Lifetime Triangulenium Dyes. <i>Journal of Physical Chemistry A</i> , 2013, 117, 2160-2168.	2.5	50
14	Synthesis and Optical Properties of Trioxatriangulenium Dyes with One and Two Peripheral Amino Substituents. <i>Journal of Organic Chemistry</i> , 2010, 75, 6182-6190.	3.2	49
15	Long-Lived Bright Red Emitting Azaoxa-Triangulenium Fluorophores. <i>PLoS ONE</i> , 2013, 8, e63043.	2.5	48
16	Enhanced fluorescence emission of Me-ADOTA+ by self-assembled silver nanoparticles on a gold film. <i>Chemical Physics Letters</i> , 2009, 476, 46-50.	2.6	47
17	Mixed valence radical cations and intermolecular complexes derived from indenofluorene-extended tetrathiafulvalenes. <i>Journal of Materials Chemistry C</i> , 2014, 2, 10428-10438.	5.5	47
18	Optical Chemical Sensor Using Intensity Ratiometric Fluorescence Signals for Fast and Reliable pH Determination. <i>ACS Sensors</i> , 2019, 4, 26-31.	7.8	47

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19	Self-assembly between dicarboxylate ions and a binuclear europium complex: formation of stable adducts and heterometallic lanthanide complexes. Dalton Transactions, 2011, 40, 12063.	3.3	46
20	Shining light on the antenna chromophore in lanthanide based dyes. Dalton Transactions, 2018, 47, 4794-4803.	3.3	46
21	Electronic Energy Levels of Dysprosium(III) ions in Solution. Assigning the Emitting State and the Intraconfigurational $4f \rightarrow 4f$ Transitions in the Vis-NIR Region and Photophysical Characterization of Dy(III) in Water, Methanol, and Dimethyl Sulfoxide. Journal of Physical Chemistry A, 2019, 123, 2734-2744.	2.5	46
22	Spectroscopic Properties of Curcumin: Orientation of Transition Moments. Journal of Physical Chemistry B, 2010, 114, 12679-12684.	2.6	44
23	Lanthanide appended rotaxanes respond to changing chloride concentration. Chemical Science, 2013, 4, 489-493.	7.4	44
24	Azadioxatriangulenium: a long fluorescence lifetime fluorophore for large biomolecule binding assay. Methods and Applications in Fluorescence, 2013, 1, 025001.	2.3	42
25	Trihydroxytrioxatriangulene—An Extended Fluorescein and a Ratiometric pH Sensor. Chemistry - A European Journal, 2010, 16, 2992-2996.	3.3	38
26	Base-Assisted One-Pot Synthesis of N,N'-Dialkyl-1,3-dimethoxyquinacridinium Dyes: Enhanced Fluorescence Efficiency by Steric Constraints. Journal of Organic Chemistry, 2012, 77, 5606-5612.	3.2	38
27	Including and Declaring Structural Fluctuations in the Study of Lanthanide(III) Coordination Chemistry in Solution. Inorganic Chemistry, 2020, 59, 94-105.	4.0	38
28	Spectrally resolved confocal microscopy using lanthanide centred near-IR emission. Chemical Communications, 2015, 51, 2372-2375.	4.1	36
29	Time-resolved confocal microscopy using lanthanide centred near-IR emission. RSC Advances, 2015, 5, 70282-70286.	3.6	35
30	Synthesis and Stability of N,N'-Dialkyl-1,3-dimethoxyquinacridinium (DMQA): A [4]Helicene with Multiple Redox States. ChemPlusChem, 2014, 79, 1030-1035.	2.8	32
31	Exploring the effect of remote substituents and solution structure on the luminescence of three lanthanide complexes. Journal of Luminescence, 2015, 167, 296-304.	3.1	31
32	Using Remote Substituents to Control Solution Structure and Anion Binding in Lanthanide Complexes. Chemistry - A European Journal, 2013, 19, 16566-16571.	3.3	30
33	Elimination of autofluorescence in fluorescence correlation spectroscopy using the AzaDiOxaTriAngulenium (ADOTA) fluorophore in combination with time-correlated single-photon counting (TCSPC). Analytical and Bioanalytical Chemistry, 2013, 405, 4887-4894.	3.7	29
34	Azadioxatriangulenium and Diazaoxatriangulenium: Quantum Yields and Fundamental Photophysical Properties. ACS Omega, 2017, 2, 193-203.	3.5	29
35	A Fluorescence Intensity Ratiometric Fiber Optics-Based Chemical Sensor for Monitoring pH. Advanced Materials Technologies, 2018, 3, 1800205.	5.8	29
36	The effect of weighted averages when determining the speciation and structure-property relationships of europium(III) dipicolinate complexes. Physical Chemistry Chemical Physics, 2020, 22, 12794-12805.	2.8	29

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37	Kinetically Inert Lanthanide Complexes as Reporter Groups for Binding of Potassium by 18-crown-6. <i>Inorganic Chemistry</i> , 2016, 55, 12299-12308.	4.0	28
38	Diazaoxatriangulenium: synthesis of reactive derivatives and conjugation to bovine serum albumin. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 1091-1101.	2.8	27
39	Direct probing of ion pair formation using a symmetric triangulenium dye. <i>Photochemical and Photobiological Sciences</i> , 2011, 10, 1963-1973.	2.9	26
40	Large area, soft crystalline thin films of N,N'-bis(2-trialkyltriazatriangulenium salts with homeotropic alignment of the discotic cores in a lamellar lattice. <i>Journal of Materials Chemistry</i> , 2012, 22, 4797.	6.7	26
41	Controlling energy transfer in ytterbium complexes: oxygen dependent lanthanide luminescence and singlet oxygen formation. <i>Chemical Communications</i> , 2015, 51, 15633-15636.	4.1	26
42	Biocompatible Microporous Organically Modified Silicate Material with Rapid Internal Diffusion of Protons. <i>ACS Sensors</i> , 2018, 3, 692-699.	7.8	26
43	Tuning the p <i>K</i> _a of a pH Responsive Fluorophore and the Consequences for Calibration of Optical Sensors Based on a Single Fluorophore but Multiple Receptors. <i>ACS Sensors</i> , 2019, 4, 764-773.	7.8	24
44	An Optical pH Sensor Based on Diazaoxatriangulenium and Isopropyl-bridged Diazatriangulenium Covalently Bound in a Composite Sol-gel. <i>Advanced Materials Technologies</i> , 2019, 4, 1800561.	5.8	21
45	Reversible Recruitment and Emission of DO3A-Derived Lanthanide Complexes at Ligating Molecular Films on Gold. <i>Langmuir</i> , 2013, 29, 1475-1482.	3.5	20
46	Solution Structure, Electronic Energy Levels, and Photophysical Properties of [Eu(MeOH) ₂ (NO ₃) ₃] ₃ ·nH ₂ O Complexes. <i>Inorganic Chemistry</i> , 2020, 59, 10409-10421.	3.0	20
47	Racemization Mechanisms and Electronic Circular Dichroism of [4]Heterohelicenium Dyes: A Theoretical Study. <i>Journal of Physical Chemistry A</i> , 2011, 115, 12025-12033.	2.5	18
48	Accessing lanthanide-based, <i>in situ</i> illuminated optical turn-on probes by modulation of the antenna triplet state energy. <i>Chemical Science</i> , 2021, 12, 9442-9451.	7.4	18
49	Direct two-photon excitation of Sm ³⁺ , Eu ³⁺ , Tb ³⁺ , Tb.DOTA ³⁻ , and Tb.propargylDO3A in solution. <i>Chemical Physics Letters</i> , 2012, 541, 16-20.	2.6	17
50	Modulation of the Photophysical Properties of Azathioxanthenes by Eu ³⁺ , Gd ³⁺ , Tb ³⁺ , and Yb ³⁺ Ions in Methanol. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 5246-5253.	2.0	17
51	Using europium(III) complex of 1,4,7,10-tetraazacyclododecane-1,4,7-triacetic acid Eu.DO3A as a luminescent sensor for bicarbonate. <i>Journal of Rare Earths</i> , 2020, 38, 498-505.	4.8	17
52	Structure of the Buried Metal-Molecule Interface in Organic Thin Film Devices. <i>Nano Letters</i> , 2009, 9, 1052-1057.	9.1	16
53	Photochemical stability and photovoltaic performance of low-band gap polymers based on dithiophene with different bridging atoms. <i>Polymer Chemistry</i> , 2011, 2, 1355.	3.9	16
54	Self-assembly between dicarboxylate ions and binuclear europium complexes: moving to water-pH dependence and effects of buffers. <i>Dalton Transactions</i> , 2013, 42, 67-70.	3.3	16

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55	Fluorescence pH Probes Based on Photoinduced Electron Transfer Quenching of Long Fluorescence Lifetime Triangulenium Dyes. <i>ChemPhotoChem</i> , 2019, 3, 233-242.	3.0	16
56	Electronic Structure of Ytterbium(III) Solvates—a Combined Spectroscopic and Theoretical Study. <i>Inorganic Chemistry</i> , 2021, 60, 7453-7464.	4.0	16
57	Azadioxatriangulenium: Synthesis and Photophysical Properties of Reactive Dyes for Bioconjugation. <i>European Journal of Organic Chemistry</i> , 2015, 2015, 6351-6358.	2.4	15
58	Investigating [Eu(H ₂ O) ₉] ³⁺ Photophysics and Creating a Method to Bypass Luminescence Quantum Yield Determinations. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 3096-3104.	4.6	15
59	Obtaining Enhanced Circular Dichroism in [4]Heterohelicenium Analogues. <i>Journal of Physical Chemistry A</i> , 2012, 116, 8744-8752.	2.5	14
60	Synthesis, optical properties and lamellar self-organization of new N,N ² ,N ³ -trialkyl-triazatriangulenium tetrafluoroborate salts. <i>Dyes and Pigments</i> , 2013, 98, 297-303.	3.7	14
61	Shining light on the excited state energy cascade in kinetically inert Ln(<i>scp</i>) complexes of a coumarin-appended DO3A ligand. <i>Dalton Transactions</i> , 2019, 48, 964-970.	3.3	14
62	Self-Assembly between Dicarboxylate Ions and Dinuclear Lanthanide Complexes: A Surprisingly Complicated Problem. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 2520-2528.	2.0	13
63	Triheterometallic Lanthanide Complexes Prepared from Kinetically Inert Lanthanide Building Blocks. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 2165-2172.	2.0	13
64	Synthesis and Structures of N-Alkyl-1,13-dimethoxychromeno[2,3,4- <i>kl</i>]acridinium Salts: The Missing Azaoxa[4]helicenium. <i>Chemistry - A European Journal</i> , 2014, 20, 6391-6400.	3.3	12
65	Thermodynamics of Self-Assembly of Dicarboxylate Ions with Binuclear Lanthanide Complexes. <i>ChemistryOpen</i> , 2015, 4, 509-515.	1.9	12
66	Azadioxatriangulenium: exploring the effect of a 20 ns fluorescence lifetime in fluorescence anisotropy measurements. <i>Methods and Applications in Fluorescence</i> , 2015, 3, 045001.	2.3	12
67	Steady state and time resolved fluorescence studies of azadioxatriangulenium (ADOTA) fluorophore in silica and PVA thin films. <i>Dyes and Pigments</i> , 2015, 117, 16-23.	3.7	12
68	A unified approach for investigating chemosensor properties — dynamic characteristics. <i>Analyst</i> , The, 2019, 144, 2208-2225.	3.5	11
69	Temperature Dependence of Fundamental Photophysical Properties of [Eu(MeOH) ₄] ³⁺ Solvates and [Eu- <i>DOTA</i> (MeOH) ₄] ⁺ Complexes. <i>Journal of Physical Chemistry A</i> , 2021, 125, 8347-8357.	2.5	11
70	The Association Between Submaximal Quadriceps Force Steadiness and the Knee Adduction Moment During Walking in Patients With Knee Osteoarthritis. <i>Journal of Orthopaedic and Sports Physical Therapy</i> , 2011, 41, 592-599.	3.5	10
71	Synthesis and fluorescence properties of DMCX—a stable oxygen-bridged [4]helicenium dye. <i>Tetrahedron Letters</i> , 2013, 54, 587-590.	1.4	10
72	Generating multiple-pulse bursts for enhanced fluorescence detection. <i>Methods and Applications in Fluorescence</i> , 2014, 2, 024009.	2.3	10

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73	Luminescence from Lanthanide(III) Ions Bound to the Glycocalyx of Chinese Hamster Ovary Cells. <i>Chemistry - A European Journal</i> , 2018, 24, 11885-11889.	3.3	10
74	Investigating the Time Response of an Optical pH Sensor Based on a Polysiloxane-Polyethylene Glycol Composite Material Impregnated with a pH-Responsive Triangulenium Dye. <i>ACS Omega</i> , 2019, 4, 8381-8389.	3.5	10
75	Ternary self-assemblies in water: forming a pentanuclear ReLn ₄ assembly by association of binuclear lanthanide binding pockets with fac-Re(CO) ₃ (dinicotinate) ₂ Cl. <i>Dalton Transactions</i> , 2013, 42, 16255.	3.3	9
76	Anomalous Thermal Expansion and Luminescence Thermochromism in Silver(I) Dicyanamide. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 4378-4381.	2.0	9
77	Investigating dye performance and crosstalk in fluorescence enabled bioimaging using a model system. <i>PLoS ONE</i> , 2017, 12, e0188359.	2.5	9
78	Revisiting the assignment of innocent and non-innocent counterions in lanthanide(ⁱⁱⁱ) solution chemistry. <i>Dalton Transactions</i> , 2022, 51, 7936-7949.	3.3	9
79	Robust Dual Optical Sensor for pH and Dissolved Oxygen. <i>ACS Sensors</i> , 2022, 7, 1506-1513.	7.8	9
80	Nanoparticle metrology of silica colloids and super-resolution studies using the ADOTA fluorophore. <i>Measurement Science and Technology</i> , 2016, 27, 045007.	2.6	8
81	Tetramethoxy-Aminorhodamine (TMARh): A Bichromophore, an Improved Fluorophore, and a pH Switch. <i>Chemistry - A European Journal</i> , 2016, 22, 7046-7049.	3.3	8
82	Expanded Thioxanthenes Engineering the Triplet Level of Thioxanthone Sensitizers for Lanthanide-Based Luminescent Probes with Visible Excitation. <i>ChemPlusChem</i> , 2019, 84, 1778-1788.	2.8	8
83	Rapid and Wash-Free Time-Gated FRET Histamine Assays Using Antibodies and Aptamers. <i>ACS Sensors</i> , 2022, 7, 1113-1121.	7.8	8
84	A Physical Unclonable Function Based on Recyclable Polymer Nanoparticles to Enable the Circular Economy. <i>ACS Applied Nano Materials</i> , 2022, 5, 13752-13760.	5.0	8
85	Synthesis of Novel Amphiphilic Azobenzenes and X-ray Scattering Studies of Their Langmuir Monolayers. <i>Langmuir</i> , 2008, 24, 3223-3227.	3.5	7
86	Aminorhodamine (ARh): A Bichromophore with Three Emission Bands in Low Temperature Glasses. <i>Chemistry - A European Journal</i> , 2015, 21, 8521-8529.	3.3	7
87	Sandwich type plasmonic platform for MEF using silver fractals. <i>Nanoscale</i> , 2015, 7, 17729-17734.	5.6	7
88	On the association of neutral and cationic tris(tetrathiafulvaleno)dodecadehydro[18]annulenes. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 425-429.	2.8	7
89	Rationalizing substituent effects in 1-azathioxanthone photophysics. <i>Methods and Applications in Fluorescence</i> , 2018, 6, 014002.	2.3	7
90	Investigating subtle 4f vs. 5f coordination differences using kinetically inert Eu(ⁱⁱⁱ), Tb(ⁱⁱⁱ), and Cm(ⁱⁱⁱ) complexes of a coumarin-appended 1,4,7,10-tetraazacyclododecane-1,4,7-triacetate (DO3A) ligand. <i>Dalton Transactions</i> , 2018, 47, 7362-7369.	3.3	7

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91	Crystal structure and optical properties of a two-sided Eu ^{III} compound: an Eu ^{III} ion coordinated by two [Eu ^{III} (DOTA)] ⁻ complexes (DOTA is Tj ETQq1 1 0,5784314 rgBT /OV Chemistry, 2021, 77, 354-364.	0.5	7
92	Creating infinite contrast in fluorescence microscopy by using lanthanide centered emission. PLoS ONE, 2017, 12, e0189529.	2.5	7
93	Incorporating fluorescent nanomaterials in organically modified sol-gel materials creating single composite optical pH sensors. Sensors & Diagnostics, 2022, 1, 185-192.	3.8	7
94	Emissive Photoconversion Products of an Amino-triangulenium Dye. Journal of Physical Chemistry A, 2016, 120, 3554-3561.	2.5	6
95	Illuminating the Intermolecular vs. Intramolecular Excited State Energy Transfer Quenching by Europium(III) Ions. European Journal of Inorganic Chemistry, 2019, 2019, 1201-1206.	2.0	6
96	We are never ever getting (back to) ideal symmetry: structure and luminescence in a ten-coordinated europium(ⁱⁱⁱ) sulfate crystal. Dalton Transactions, 2022, 51, 8960-8963.	3.3	6
97	Delicate, a study of the structural changes in ten-coordinated La(ⁱⁱⁱ), Ce(ⁱⁱⁱ), Pr(ⁱⁱⁱ), Nd(ⁱⁱⁱ), Sm(ⁱⁱⁱ) and Eu(ⁱⁱⁱ) sulfates. Dalton Transactions, 2022, 51, 8964-8974.	3.3	6
98	Synthesis, UV/vis spectra and electrochemical characterisation of arylthio and styryl substituted ferrocenes. Open Chemistry, 2011, 9, 610-618.	1.9	5
99	Detection of hyaluronidase activity using fluorescence lifetime correlation spectroscopy to separate diffusing species and eliminate autofluorescence. Proceedings of SPIE, 2013, , .	0.8	4
100	Long fluorescence lifetime triangulenium dyes in imaging and fluorescence polarization assay. Methods in Enzymology, 2020, 640, 249-265.	1.0	4
101	HOCl Responsive Lanthanide Complexes Using Hydroquinone Caging Units. Molecules, 2020, 25, 1959.	3.8	3
102	Controlling the fractal dimension in self-assembly of terpyridine modified insulin by Fe ²⁺ and Eu ³⁺ to direct <i>in vivo</i> effects. Nanoscale, 2021, 13, 8467-8473.	5.6	3
103	ConA-based glucose sensing using the long-lifetime azadioxatriangulenium fluorophore. Proceedings of SPIE, 2014, , .	0.8	2
104	Excited state kinetics of anthracene-bridge-aniline intramolecular exciplexes. Photochemical and Photobiological Sciences, 2014, 13, 1093.	2.9	2
105	Template-Guided Ionic Self-Assembled Molecular Materials and Thin Films with Nanoscopic Order. ChemNanoMat, 2015, 1, 253-258.	2.8	2
106	Illuminating the Intermolecular vs. Intramolecular Excited State Energy Transfer Quenching by Europium(III) Ions. European Journal of Inorganic Chemistry, 2019, 2019, 1179-1179.	2.0	2
107	Expanded Thioxanthenes Engineering the Triplet Level of Thioxanthone Sensitizers for Lanthanide-Based Luminescent Probes with Visible Excitation. ChemPlusChem, 2019, 84, 1777-1777.	2.8	1
108	Synthesis of fluorescent polystyrene nanoparticles: a reproducible and scalable method. , 0, 4, e22.		1

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109	Novel plasmonic platform for ultra-sensitive detection and diagnostics. , 2016, , .		0
110	Triheterometallic Lanthanide Complexes Prepared from Kinetically Inert Lanthanide Building Blocks. European Journal of Inorganic Chemistry, 2017, 2017, 2164-2164.	2.0	0
111	Using Polarized Spectroscopy to Investigate Order in Thin-Films of Ionic Self-Assembled Materials Based on Azo-Dyes. Nanomaterials, 2018, 8, 109.	4.1	0
112	Frontispiece: Luminescence from Lanthanide(III) Ions Bound to the Glycocalyx of Chinese Hamster Ovary Cells. Chemistry - A European Journal, 2018, 24, .	3.3	0
113	Fluorescence pH Probes Based On Photoinduced Electron Transfer Quenching of Long Fluorescence Lifetime Triangulenium Dyes. ChemPhotoChem, 2019, 3, 213-213.	3.0	0
114	Bromosubstituted norbornadienes and their reversible photolytic transformation to quadricyclanes. ScienceOpen Research, 2014, .	0.6	0