

# Thomas Just Sørensen

## List of Publications by Year in descending order

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114  
papers

2,967  
citations

159585

30  
h-index

197818

49  
g-index

143  
all docs

143  
docs citations

143  
times ranked

3222  
citing authors

#	ARTICLE	IF	CITATIONS
1	Incorporating fluorescent nanomaterials in organically modified sol-gel materials creating single composite optical pH sensors. <i>Sensors &amp; Diagnostics</i> , 2022, 1, 185-192.	3.8	7
2	Investigating $[Eu(H_2O)_9]^{3+}$ 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
3	Rapid and Wash-Free Time-Gated FRET Histamine Assays Using Antibodies and Aptamers. <i>ACS Sensors</i> , 2022, 7, 1113-1121.	7.8	8
4	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
5	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
6	Robust Dual Optical Sensor for pH and Dissolved Oxygen. <i>ACS Sensors</i> , 2022, 7, 1506-1513.	7.8	9
7	We are never ever getting (back to) ideal symmetry: structure and luminescence in a ten-coordinated europium(III) sulfate crystal. <i>Dalton Transactions</i> , 2022, 51, 8960-8963.	3.3	6
8	Delicate, a study of the structural changes in ten-coordinated La(III), Ce(III), Pr(III), Nd(III), Sm(III) and Eu(III) sulfates. <i>Dalton Transactions</i> , 2022, 51, 8964-8974.	3.3	6
9	Electronic Structure of Ytterbium(III) Solvates—a Combined Spectroscopic and Theoretical Study. <i>Inorganic Chemistry</i> , 2021, 60, 7453-7464.	4.0	16
10	Crystal structure and optical properties of a two-sited Eu(III) compound: an Eu(III) ion coordinated by two $[Eu(III)(DOTA)]^{3-}$ complexes (DOTA is Tj ETQq0 0.0 rgBT /Qverlock 10	0.5	9
11	Temperature Dependence of Fundamental Photophysical Properties of $[Eu(MeOH)_4]^{3+}$ Solvates and $[Eu(DOTA)(MeOH)_4]^{3-}$ Complexes. <i>Journal of Physical Chemistry A</i> , 2021, 125, 8347-8357.	2.5	11
12	Controlling the fractal dimension in self-assembly of terpyridine modified insulin by $Fe^{2+}$ and $Eu^{3+}$ to direct <i>in vivo</i> effects. <i>Nanoscale</i> , 2021, 13, 8467-8473.	5.6	3
13	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
14	Including and Declaring Structural Fluctuations in the Study of Lanthanide(III) Coordination Chemistry in Solution. <i>Inorganic Chemistry</i> , 2020, 59, 94-105.	4.0	38
15	Using europium(III) complex of 1,4,7,10-tetraazacyclododecane-1,4,7-triacetic acid Eu.D03A as a luminescent sensor for bicarbonate. <i>Journal of Rare Earths</i> , 2020, 38, 498-505.	4.8	17
16	The effect of weighted averages when determining the speciation and structure-property relationships of europium(III) dipicolinate complexes. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 12794-12805.	2.8	29
17	Long fluorescence lifetime triangulenium dyes in imaging and fluorescence polarization assay. <i>Methods in Enzymology</i> , 2020, 640, 249-265.	1.0	4
18	Solution Structure, Electronic Energy Levels, and Photophysical Properties of $[Eu(MeOH)_2(NO_3)_3]^{3+}$ Complexes. <i>Inorganic Chemistry</i> , 2020, 59, 10409-10421.	4.0	20

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19	HOCl Responsive Lanthanide Complexes Using Hydroquinone Caging Units. <i>Molecules</i> , 2020, 25, 1959.	3.8	3
20	An Optical pH Sensor Based on Diazoaxatriangulenium and Isopropyl-bridged Diazatriangulenium Covalently Bound in a Composite Sol-gel. <i>Advanced Materials Technologies</i> , 2019, 4, 1800561.	5.8	21
21	Engineering the Triplet Level of Thioxanthone Sensitizers for Lanthanide-Based Luminescent Probes with Visible Excitation. <i>ChemPlusChem</i> , 2019, 84, 1777-1777.	2.8	1
22	Shining light on the excited state energy cascade in kinetically inert Ln(III) complexes of a coumarin-appended DO3A ligand. <i>Dalton Transactions</i> , 2019, 48, 964-970.	3.3	14
23	Illuminating the Intermolecular vs. Intramolecular Excited State Energy Transfer Quenching by Europium(III) Ions. <i>European Journal of Inorganic Chemistry</i> , 2019, 2019, 1201-1206.	2.0	6
24	Versatile and Validated Optical Authentication System Based on Physical Unclonable Functions. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 6475-6482.	8.0	84
25	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
26	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
27	Fluorescence pH Probes Based On Photoinduced Electron Transfer Quenching of Long Fluorescence Lifetime Triangulenium Dyes. <i>ChemPhotoChem</i> , 2019, 3, 213-213.	3.0	0
28	A unified approach for investigating chemosensor properties – dynamic characteristics. <i>Analyst</i> , 2019, 144, 2208-2225.	3.5	11
29	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
30	Electronic Energy Levels of Dysprosium(III) ions in Solution. Assigning the Emitting State and the Intraconfigurational $4f \rightarrow 4f$ Transitions in the Visible-NIR Region and Photophysical Characterization of Dy(III) in Water, Methanol, and Dimethyl Sulfoxide. <i>Journal of Physical Chemistry A</i> , 2019, 123, 2734-2744.	2.5	46
31	Tuning the $K_a$ 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
32	Illuminating the Intermolecular vs. Intramolecular Excited State Energy Transfer Quenching by Europium(III) Ions. <i>European Journal of Inorganic Chemistry</i> , 2019, 2019, 1179-1179.	2.0	2
33	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
34	Rationalizing substituent effects in 1-azathioxanthone photophysics. <i>Methods and Applications in Fluorescence</i> , 2018, 6, 014002.	2.3	7
35	Shining light on the antenna chromophore in lanthanide based dyes. <i>Dalton Transactions</i> , 2018, 47, 4794-4803.	3.3	46
36	Biocompatible Microporous Organically Modified Silicate Material with Rapid Internal Diffusion of Protons. <i>ACS Sensors</i> , 2018, 3, 692-699.	7.8	26

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37	An optical authentication system based on imaging of excitation-selected lanthanide luminescence. <i>Science Advances</i> , 2018, 4, e1701384.	10.3	143
38	Using Polarized Spectroscopy to Investigate Order in Thin-Films of Ionic Self-Assembled Materials Based on Azo-Dyes. <i>Nanomaterials</i> , 2018, 8, 109.	4.1	0
39	A Fluorescence Intensity Ratiometric Fiber Optics-Based Chemical Sensor for Monitoring pH. <i>Advanced Materials Technologies</i> , 2018, 3, 1800205.	5.8	29
40	Multimetallic Lanthanide Complexes: Using Kinetic Control To Define Complex Multimetallic Arrays. <i>Accounts of Chemical Research</i> , 2018, 51, 2493-2501.	15.6	53
41	Composed in the f-block: solution structure and function of kinetically inert lanthanide(III) complexes. <i>Dalton Transactions</i> , 2018, 47, 10360-10376.	3.3	51
42	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
43	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
44	Frontispiece: Luminescence from Lanthanide(III) Ions Bound to the Glycocalyx of Chinese Hamster Ovary Cells. <i>Chemistry - A European Journal</i> , 2018, 24, .	3.3	0
45	Triheterometallic Lanthanide Complexes Prepared from Kinetically Inert Lanthanide Building Blocks. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 2165-2172.	2.0	13
46	Azadioxatriangulenium and Diazaoxatriangulenium: Quantum Yields and Fundamental Photophysical Properties. <i>ACS Omega</i> , 2017, 2, 193-203.	3.5	29
47	Physical unclonable functions generated through chemical methods for anti-counterfeiting. <i>Nature Reviews Chemistry</i> , 2017, 1, .	30.2	409
48	Modulation of the Photophysical Properties of Azathioxanthenes by Eu <sup>3+</sup> , Gd <sup>3+</sup> , Tb <sup>3+</sup> , and Yb <sup>3+</sup> Ions in Methanol. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 5246-5253.	2.0	17
49	Triheterometallic Lanthanide Complexes Prepared from Kinetically Inert Lanthanide Building Blocks. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 2164-2164.	2.0	0
50	Investigating dye performance and crosstalk in fluorescence enabled bioimaging using a model system. <i>PLoS ONE</i> , 2017, 12, e0188359.	2.5	9
51	Creating infinite contrast in fluorescence microscopy by using lanthanide centered emission. <i>PLoS ONE</i> , 2017, 12, e0189529.	2.5	7
52	Anomalous Thermal Expansion and Luminescence Thermochromism in Silver(I) Dicyanamide. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 4378-4381.	2.0	9
53	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
54	Emissive Photoconversion Products of an Amino-triangulenium Dye. <i>Journal of Physical Chemistry A</i> , 2016, 120, 3554-3561.	2.5	6

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55	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
56	Tetramethoxy- $\beta$ -Aminorhodamine (TMARh): A Bichromophore, an Improved Fluorophore, and a pH Switch. <i>Chemistry - A European Journal</i> , 2016, 22, 7046-7049.	3.3	8
57	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
58	Novel plasmonic platform for ultra-sensitive detection and diagnostics. , 2016, , .		0
59	Diazaoxatriangulenium: synthesis of reactive derivatives and conjugation to bovine serum albumin. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 1091-1101.	2.8	27
60	Thermodynamics of Self-Assembly of Dicarboxylate Ions with Binuclear Lanthanide Complexes. <i>ChemistryOpen</i> , 2015, 4, 509-515.	1.9	12
61	Template-Guided Ionic Self-Assembled Molecular Materials and Thin Films with Nanoscopic Order. <i>ChemNanoMat</i> , 2015, 1, 253-258.	2.8	2
62	Azadioxatriangulenium: Synthesis and Photophysical Properties of Reactive Dyes for Bioconjugation. <i>European Journal of Organic Chemistry</i> , 2015, 2015, 6351-6358.	2.4	15
63	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
64	Spectrally resolved confocal microscopy using lanthanide centred near-IR emission. <i>Chemical Communications</i> , 2015, 51, 2372-2375.	4.1	36
65	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
66	Bimetallic lanthanide complexes that display a ratiometric response to oxygen concentrations. <i>Chemical Science</i> , 2015, 6, 2054-2059.	7.4	71
67	Exploring the effect of remote substituents and solution structure on the luminescence of three lanthanide complexes. <i>Journal of Luminescence</i> , 2015, 167, 296-304.	3.1	31
68	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
69	Sandwich type plasmonic platform for MEF using silver fractals. <i>Nanoscale</i> , 2015, 7, 17729-17734.	5.6	7
70	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
71	Time-resolved confocal microscopy using lanthanide centred near-IR emission. <i>RSC Advances</i> , 2015, 5, 70282-70286.	3.6	35
72	Synthesis and Stability of $N,N'$ -dialkyl-1,13-dimethoxyquinacridinium (DMQA <sup>+</sup> ); A [4]Helicene with Multiple Redox States. <i>ChemPlusChem</i> , 2014, 79, 1030-1035.	2.8	32

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73	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
74	ConA-based glucose sensing using the long-lifetime azadioxatriangulenium fluorophore. <i>Proceedings of SPIE</i> , 2014, , .	0.8	2
75	Synthesis and Structures of <i>N,N</i> -alkyl-1,3-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
76	Excited state kinetics of anthracene-bridge-aniline intramolecular exciplexes. <i>Photochemical and Photobiological Sciences</i> , 2014, 13, 1093.	2.9	2
77	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
78	Generating multiple-pulse bursts for enhanced fluorescence detection. <i>Methods and Applications in Fluorescence</i> , 2014, 2, 024009.	2.3	10
79	Bromosubstituted norbornadienes and their reversible photolytic transformation to quadricyclanes. <i>ScienceOpen Research</i> , 2014, .	0.6	0
80	Elimination of autofluorescence in fluorescence correlation spectroscopy using the AzaDiOxaTriAngulenium (ADOTA) fluorophore in combination with time-correlated single-photon counting (TCSPC). <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 4887-4894.	3.7	29
81	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
82	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
83	Ternary self-assemblies in water: forming a pentanuclear $\text{ReLn}_4$ assembly by association of binuclear lanthanide binding pockets with $\text{fac-Re}(\text{CO})_3(\text{dinicotinate})_2\text{Cl}$ . <i>Dalton Transactions</i> , 2013, 42, 16255.	3.3	9
84	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
85	Using Remote Substituents to Control Solution Structure and Anion Binding in Lanthanide Complexes. <i>Chemistry - A European Journal</i> , 2013, 19, 16566-16571.	3.3	30
86	Lanthanide appended rotaxanes respond to changing chloride concentration. <i>Chemical Science</i> , 2013, 4, 489-493.	7.4	44
87	Synthesis and fluorescence properties of DMCX+ a stable oxygen-bridged [4]helicenium dye. <i>Tetrahedron Letters</i> , 2013, 54, 587-590.	1.4	10
88	Preparation and study of an $f,f,f,f$ covalently linked tetranuclear hetero-trimetallic complex a europium, terbium, dysprosium triad. <i>Chemical Communications</i> , 2013, 49, 783-785.	4.1	55
89	Synthesis, optical properties and lamellar self-organization of new $N,N,N^3$ -trialkyl-triazatriangulenium tetrafluoroborate salts. <i>Dyes and Pigments</i> , 2013, 98, 297-303.	3.7	14
90	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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91	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
92	Azadioxatriangulenium: a long fluorescence lifetime fluorophore for large biomolecule binding assay. <i>Methods and Applications in Fluorescence</i> , 2013, 1, 025001.	2.3	42
93	Detection of hyaluronidase activity using fluorescence lifetime correlation spectroscopy to separate diffusing species and eliminate autofluorescence. <i>Proceedings of SPIE</i> , 2013, , .	0.8	4
94	Long-Lived Bright Red Emitting Azaoxa-Triangulenium Fluorophores. <i>PLoS ONE</i> , 2013, 8, e63043.	2.5	48
95	Base-Assisted One-Pot Synthesis of N,N <sup>2</sup> ,N <sup>3</sup> -Triaryltriaza-triangulenium Dyes: Enhanced Fluorescence Efficiency by Steric Constraints. <i>Journal of Organic Chemistry</i> , 2012, 77, 5606-5612.	3.2	38
96	Large area, soft crystalline thin films of N,N <sup>2</sup> ,N <sup>2</sup> -trialkyltriaza-triangulenium salts with homeotropic alignment of the discotic cores in a lamellar lattice. <i>Journal of Materials Chemistry</i> , 2012, 22, 4797.	6.7	26
97	Obtaining Enhanced Circular Dichroism in [4]Heterohelicenium Analogues. <i>Journal of Physical Chemistry A</i> , 2012, 116, 8744-8752.	2.5	14
98	Direct two-photon excitation of Sm <sup>3+</sup> , Eu <sup>3+</sup> , Tb <sup>3+</sup> , Tb.DOTA <sup>3-</sup> , and Tb.propargylDO3A in solution. <i>Chemical Physics Letters</i> , 2012, 541, 16-20.	2.6	17
99	Luminescence and upconversion from thulium(iii) species in solution. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 13378.	2.8	55
100	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
101	Self-assembly between dicarboxylate ions and a binuclear europium complex: formation of stable adducts and heterometallic lanthanide complexes. <i>Dalton Transactions</i> , 2011, 40, 12063.	3.3	46
102	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
103	Direct probing of ion pair formation using a symmetric triangulenium dye. <i>Photochemical and Photobiological Sciences</i> , 2011, 10, 1963-1973.	2.9	26
104	Synthesis, UV/vis spectra and electrochemical characterisation of arylthio and styryl substituted ferrocenes. <i>Open Chemistry</i> , 2011, 9, 610-618.	1.9	5
105	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
106	Spectroscopic Properties of Curcumin: Orientation of Transition Moments. <i>Journal of Physical Chemistry B</i> , 2010, 114, 12679-12684.	2.6	44
107	Trihydroxytrioxatriangulene <sup>2+</sup> An Extended Fluorescein and a Ratiometric pH Sensor. <i>Chemistry - A European Journal</i> , 2010, 16, 2992-2996.	3.3	38
108	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

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109	Complexation between Methyl Viologen (Paraquat) Bis(Hexafluorophosphate) and Dibenzo[24]Crown-8 Revisited. <i>Chemistry - A European Journal</i> , 2009, 15, 106-116.	3.3	64
110	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
111	Synthesis of Super Stable Triangulenium Dye. <i>Journal of Organic Chemistry</i> , 2009, 74, 3183-3185.	3.2	56
112	Structure of the Buried Metal-Molecule Interface in Organic Thin Film Devices. <i>Nano Letters</i> , 2009, 9, 1052-1057.	9.1	16
113	Synthesis of Novel Amphiphilic Azobenzenes and X-ray Scattering Studies of Their Langmuir Monolayers. <i>Langmuir</i> , 2008, 24, 3223-3227.	3.5	7
114	Synthesis of fluorescent polystyrene nanoparticles: a reproducible and scalable method. , 0, 4, e22.		1