Ulla G Nielsen

List of Publications by Year
in descending order

71 papers	2,437 citations	257450 24 h-index	214800 47 g-index
74 all docs	74 docs citations	74 times ranked	3282 citing authors

#	Article	IF	Citations
1	Safety of gadolinium based contrast agents in magnetic resonance imaging-guided radiotherapy â€“ An investigation of chelate stability using relaxometry. Physics and Imaging in Radiation Oncology, 2022, 21, 96-100.	2.9	11
2	Quantification of Biologically and Chemically Bound Phosphorus in Activated Sludge from Full-Scale Plants with Biological P-Removal. Environmental Science & Technology, 2022, 56, 5132-5140.	10.0	15
3	Variation in Phosphorus Speciation of Sewage Sludge throughout Three Wastewater Treatment Plants: Determined by Sequential Extraction Combined with Microscopy, NMR Spectroscopy, and Powder X-ray Diffraction. Environmental Science & Technology, 2022, 56, 8975-8983.	10.0	15
4	Solid state NMR studies of layered double hydroxides. Annual Reports on NMR Spectroscopy, 2021, 104, 75-140.	1.5	6
5	Calcium Affects Polyphosphate and Lipid Accumulation in Mucoromycota Fungi. Journal of Fungi (Basel, Switzerland), 2021, 7, 300.	3.5	16
6	Orientation effect of zinc vanadate cathode on zinc ion storage performance. Electrochimica Acta, 2021, 388, 138646.	5.2	15
7	Quantitative determination of vivianite in sewage sludge by a phosphate extraction protocol validated by PXRD, SEM-EDS, and 31P NMR spectroscopy towards efficient vivianite recovery. Water Research, 2021, 202, 117411.	11.3	23
8	Oral etoposide and zosuquidar bioavailability in rats: Effect of co-administration and in vitro-in vivo correlation of P-glycoprotein inhibition. International Journal of Pharmaceutics: X, 2021, 3, 100089.	1.6	2
9	Synthesis and Thermal Degradation of MAl₄(OH)₁₂SO₄Â·3H₂O with M = Co²⁺, Ni²⁺, Cu²⁺, and Zn²⁺. Inorganic Chemistry, 2021, 60, 16700-16712.	4.0	6
10	Phosphorus speciation and fertiliser performance characteristics: A comparison of waste recovered struvites from global sources. Geoderma, 2020, 362, 114096.	5.1	34
11	Importance of Axial Symmetry in Elucidating Lanthanideâ€“Transition Metal Interactions. Inorganic Chemistry, 2020, 59, 235-243.	4.0	13
12	Effect of Oxygen Defects on the Structural Evolution of LiVPO₄F_{1â€“<i>y</i>}O_{<i>y</i>} Cathode Materials. ACS Applied Energy Materials, 2020, 3, 9750-9759.	5.1	2
13	Stability of magnetic LDH composites used for phosphate recovery. Journal of Colloid and Interface Science, 2020, 580, 660-668.	9.4	28
14	Applications of solid-state NMR spectroscopy in environmental science. Solid State Nuclear Magnetic Resonance, 2020, 110, 101698.	2.3	7
15	Structural characterization and magnetic properties of chromium jarosite KCr₃(OD)₆(SO₄)₂. Physical Chemistry Chemical Physics, 2020, 22, 25001-25010.	2.8	3
16	Remarkable reversal of ¹³C-NMR assignment in d¹, d² compared to d⁸, d⁹ acetylacetonate complexes: analysis and explanation based on solid-state MAS NMR and computations. Physical Chemistry Chemical Physics, 2020, 22, 8048-8059.	2.8	12
17	An investigation of the phosphate removal mechanism by MgFe layered double hydroxides. Applied Clay Science, 2020, 189, 105521.	5.2	55
18	Reactivity of magnesium borohydride â€“ Metal hydride composites, Î^{3}-Mg(BH4)2-MHx, MÂ= Li, Na, Mg, Ca. Journal of Alloys and Compounds, 2019, 770, 1155-1163.	5.5	15

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19	New Training to Meet the Global Phosphorus Challenge. Environmental Science & Technology, 2019, 53, 8479-8481.	10.0	29
20	Montmorillonite-surfactant hybrid particles for modulating intestinal P-glycoprotein-mediated transport. International Journal of Pharmaceutics, 2019, 571, 118696.	5.2	11
21	Atomic Level Understanding of Orthophosphate Adsorption by Magnesium Aluminum-Layered Double Hydroxidesâ€”A Multitechnique Study. Journal of Physical Chemistry C, 2019, 123, 24039-24050.	3.1	24
22	Layered double hydroxides for phosphorus recovery from acidified and non-acidified dewatered sludge. Water Research, 2019, 153, 208-216.	11.3	53
23	Phosphate capture by ultrathin MgAl layered double hydroxide nanoparticles. Applied Clay Science, 2019, 177, 82-90.	5.2	53
24	Sequestration of orthophosphate by Ca2Al-NO3 layered double hydroxide â€“ Insight into reactivity and mechanism. Applied Clay Science, 2019, 176, 49-57.	5.2	23
25	Synthesis and Structural Characterization of a Pure ZnAl₄(OH)₁₂(SO₄)Â·2.6H₂O Layered Double Hydroxide. Inorganic Chemistry, 2019, 58, 6114-6122.	4.0	15
26	Extraction and quantification of polyphosphates in activated sludge from waste water treatment plants by 31P NMR spectroscopy. Water Research, 2019, 157, 346-355.	11.3	32
27	Identification of hydrogen species in alunite-type minerals by multi-nuclear solid-state NMR spectroscopy. Physics and Chemistry of Minerals, 2019, 46, 299-309.	0.8	5
28	Order in disorder: solution and solid-state studies of [MIII2MII5] wheels (M^{III} = Cr, Al;) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	3.3	12
29	The distribution of reactive Ni²⁺ in 2D Mg_{2â^'x}Ni_xAl-LDH nanohybrid materials determined by solid state ²⁷Al MAS NMR spectroscopy. Physical Chemistry Chemical Physics, 2018, 20, 25335-25342.	2.8	11
30	Thermodynamic properties of mansfieldite (AlAsO₄Â·2H₂O), angelellite (Fe₄(AsO₄)₂O₃) and kamarizaite (Fe₃(AsO₄)₂(OH)₃Â·3H₂O). Mineralogical Magazine, 2018, 82, 1333-1354.	1.4	8
31	In situ processing of fluorinated carbonâ€”Lithium fluoride nanocomposites. Materials and Design, 2018, 158, 106-112.	7.0	6
32	Compaction of LiBH4-LiAlH4 nanoconfined in activated carbon nanofibers: Dehydrogenation kinetics, reversibility, and mechanical stability during cycling. International Journal of Hydrogen Energy, 2017, 42, 1036-1047.	7.1	17
33	Thermodynamics and crystal chemistry of rhomboclase, (H₅O₂)Fe(SO₄)₂Â·2H₂O, and the phase (H₃O)Fe(SO₄)₂and implications for acid mine drainage. American Mineralogist, 2017, 102, 643-654.	1.9	5
34	Synthesis and Characterization of Zeolite Naâ€“Y and Its Conversion to the Solid Acid Zeolite Hâ€“Y. Journal of Chemical Education, 2017, 94, 781-785.	2.3	13
35	Competitive reactions during synthesis of zinc aluminum layered double hydroxides by thermal hydrolysis of urea. Journal of Materials Chemistry A, 2017, 5, 21795-21806.	10.3	43
36	Assignment of solid-state 13 C and 1 H NMR spectra of paramagnetic Ni(II) acetylacetonate complexes aided by first-principles computations. Solid State Nuclear Magnetic Resonance, 2017, 87, 29-37.	2.3	17

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37	A solid state NMR study of layered double hydroxides intercalated with para-amino salicylate, a tuberculosis drug. Solid State Nuclear Magnetic Resonance, 2016, 78, 9-15.	2.3	17
38	Structural Investigation of Zn(II) Insertion in Bayerite, an Aluminum Hydroxide. Inorganic Chemistry, 2016, 55, 9306-9315.	4.0	22
39	The role of aluminium as an additive element in the synthesis of porous 4H-silicon carbide. Journal of the European Ceramic Society, 2016, 36, 3267-3278.	5.7	6
40	Dynamic Characterization of Inter- and Intralamellar Domains of Cobalt-Based Layered Double Hydroxides upon Electrochemical Oxidation. Chemistry of Materials, 2016, 28, 7793-7806.	6.7	28
41	Responses in sediment phosphorus and lanthanum concentrations and composition across 10 lakes following applications of lanthanum modified bentonite. Water Research, 2016, 97, 101-110.	11.3	70
42	Influence of dissolved organic carbon on the efficiency of P sequestration by a lanthanum modified clay. Water Research, 2016, 97, 39-46.	11.3	85
43	Reduced graphene oxide for Liâ€“air batteries: The effect of oxidation time and reduction conditions for graphene oxide. Carbon, 2015, 85, 233-244.	10.3	78
44	The effect of preparation method on the proton conductivity of indium doped tin pyrophosphates. Solid State Ionics, 2015, 278, 209-216.	2.7	13
45	Characterization of Phosphate Sequestration by a Lanthanum Modified Bentonite Clay: A Solid-State NMR, EXAFS, and PXRD Study. Environmental Science & Technology, 2015, 49, 4559-4566.	10.0	113
46	How the Method of Synthesis Governs the Local and Global Structure of Zinc Aluminum Layered Double Hydroxides. Journal of Physical Chemistry C, 2015, 119, 27695-27707.	3.1	81
47	The stoichiometry of synthetic alunite as a function of hydrothermal aging investigated by solid-state NMR spectroscopy, powder X-ray diffraction and infrared spectroscopy. Physics and Chemistry of Minerals, 2015, 42, 337-345.	0.8	7
48	Solid State ¹³C and ²H NMR Investigations of Paramagnetic [Ni(II)(acac)₂L₂] Complexes. Inorganic Chemistry, 2014, 53, 399-408.	4.0	14
49	Local environment and composition of magnesium gallium layered double hydroxides determined from solid-state 1H and 71Ga NMR spectroscopy. Journal of Solid State Chemistry, 2014, 219, 242-246.	2.9	16
50	Solid state 31P MAS NMR spectroscopy and conductivity measurements on NbOPO4 and H3PO4 composite materials. Journal of Solid State Chemistry, 2014, 219, 80-86.	2.9	14
51	Synthesis and thermal stability of the sodalite Na6Zn2[Al6Si6O24](SO4)2 and its reaction with hydrogen. Microporous and Mesoporous Materials, 2012, 161, 91-97.	4.4	10
52	Preparation of Nafion 117â„¢-SnO2 composite membranes using an ion-exchange method. Solid State Ionics, 2012, 213, 76-82.	2.7	23
53	Insight into the Local Magnetic Environments and Deuteron Mobility in Jarosite (AFe₃(SO₄)₂(OD,OD₂)₆, A = K, Na,) Tj ETQq1 1 0.784314 rgBT /Overl ((D₃O)Al₃(SO₄)₂(OD)₆), from Variable-Temperature ²H MAS NMR Spectroscopy. Chemistry of Materials, 2011, 23, 3176-3187.	6.7	23
54	Solid-state 51V MAS NMR spectroscopy determines component concentration and crystal phase in co-crystallised mixtures of vanadium complexes. CrystEngComm, 2010, 12, 2826.	2.6	11

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55	Mg/Al Ordering in Layered Double Hydroxides Revealed by Multinuclear NMR Spectroscopy. Science, 2008, 321, 113-117.	12.6	591
56	Dicobalt IIâˆ’II, IIâˆ’III, and IIIâˆ’III Complexes as Spectroscopic Models for Dicobalt Enzyme Active Sites. Inorganic Chemistry, 2008, 47, 5079-5092.	4.0	79
57	Determination and Quantification of the Local Environments in Stoichiometric and Defect Jarosite by Solid-State ²H NMR Spectroscopy. Chemistry of Materials, 2008, 20, 2234-2241.	6.7	37
58	Local Environments and Lithium Adsorption on the Iron Oxyhydroxides Lepidocrocite (Î³-FeOOH) and Goethite (Î±-FeOOH):â€‰ A ²H and ⁷Li Solid-State MAS NMR Study. Journal of the American Chemical Society, 2008, 130, 1285-1295.	13.7	67
59	Characterization of defects and the local structure in natural and synthetic alunite (K, Na,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 587-597.	1.9	25
60	High-resolution nuclear magnetic resonance spectroscopy of biological tissues using projected magic angle spinning. Magnetic Resonance in Medicine, 2005, 54, 253-257.	3.0	10
61	Investigating Sorption on Ironâˆ’Oxyhydroxide Soil Minerals by Solid-State NMR Spectroscopy:Â A6Li MAS NMR Study of Adsorption and Absorption on Goethite. Journal of Physical Chemistry B, 2005, 109, 18310-18315.	2.6	44
62	The Complete 51V MAS NMR Spectrum of Surface Vanadia Nanoparticles on Anatase (TiO2):â€‰ Vanadia Surface Structure of a DeNOx Catalyst. Journal of the American Chemical Society, 2004, 126, 4926-4933.	13.7	51
63	Aluminum Orthovanadate (AlVO4): Synthesis and Characterization by27Al and51V MAS and MQMAS NMR Spectroscopy.. ChemInform, 2003, 34, no.	0.0	0
64	Small 51V chemical shift anisotropy for LaVO4 from MQMAS and MAS NMR spectroscopy. Solid State Nuclear Magnetic Resonance, 2003, 23, 107-115.	2.3	12
65	Î²-VO2â€"a V(IV) or a mixed-valence V(III)â€"V(V) oxideâ€"studied by 51V MAS NMR spectroscopy. Chemical Physics Letters, 2002, 356, 73-78.	2.6	17
66	Aluminum Orthovanadate (AlVO4):Â Synthesis and Characterization by27Al and51V MAS and MQMAS NMR Spectroscopy. Inorganic Chemistry, 2002, 41, 6432-6439.	4.0	42
67	Crystal structure of ÃŽÂ±-Mg2V2O7 from synchrotron X-ray powder diffraction and characterization by 51V MAS NMR spectroscopy. Dalton Transactions RSC, 2001, , 3214-3218.	2.3	24
68	Resolving multiple 27Al sites in AlVO4 by 27Al MAS NMR spectroscopy at 21.15 Tesla. Chemical Communications, 2001, , 2690-2691.	4.1	6
69	51V MAS NMR Investigation of51V Quadrupole Coupling and Chemical Shift Anisotropy in Divalent Metal Pyrovanadates. Journal of Physical Chemistry B, 2001, 105, 420-429.	2.6	66
70	59Co Chemical Shift Anisotropy and Quadrupole Coupling for K3Co(CN)6 from MQMAS and MAS NMR Spectroscopy. Solid State Nuclear Magnetic Resonance, 2001, 20, 23-34.	2.3	15
71	Characterization of Divalent Metal Metavanadates by51V Magic-Angle Spinning NMR Spectroscopy of the Central and Satellite Transitions. Inorganic Chemistry, 2000, 39, 2135-2145.	4.0	57