

# Lambert van Eijck

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8161220/publications.pdf>

Version: 2024-02-01

56  
papers

1,592  
citations

304743

22  
h-index

302126

39  
g-index

58  
all docs

58  
docs citations

58  
times ranked

2100  
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis, structure and electrochemical performance of the argyrodite Li <sub>6</sub> PS <sub>5</sub> Cl solid electrolyte for Li-ion solid state batteries. <i>Electrochimica Acta</i> , 2016, 215, 93-99.	5.2	203
2	Facile Synthesis toward the Optimal Structure-Conductivity Characteristics of the Argyrodite Li <sub>6</sub> PS <sub>5</sub> Cl Solid-State Electrolyte. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 33296-33306.	8.0	158
3	All-in-one improvement toward Li <sub>6</sub> PS <sub>5</sub> Br-Based solid electrolytes triggered by compositional tune. <i>Journal of Power Sources</i> , 2019, 410-411, 162-170.	7.8	134
4	Dynamical Coupling of Intrinsically Disordered Proteins and Their Hydration Water: Comparison with Folded Soluble and Membrane Proteins. <i>Biophysical Journal</i> , 2012, 103, 129-136.	0.5	79
5	Revealing the relation between the structure, Li-ion conductivity and solid-state battery performance of the argyrodite Li <sub>6</sub> PS <sub>5</sub> Br solid electrolyte. <i>Journal of Materials Chemistry A</i> , 2017, 5, 21178-21188.	10.3	76
6	A lithium argyrodite Li <sub>6</sub> PS <sub>5</sub> Cl <sub>0.5</sub> Br <sub>0.5</sub> electrolyte with improved bulk and interfacial conductivity. <i>Journal of Power Sources</i> , 2019, 412, 29-36.	7.8	67
7	Tailoring Li <sub>6</sub> PS <sub>5</sub> Br ionic conductivity and understanding of its role in cathode mixtures for high performance all-solid-state Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 10412-10421.	10.3	64
8	Recent Backscattering Instrument Developments at the ILL and SNS. <i>Zeitschrift Fur Physikalische Chemie</i> , 2010, 224, 33-60.	2.8	61
9	Hydrogen in Porous Tetrahydrofuran Clathrate Hydrate. <i>ChemPhysChem</i> , 2008, 9, 1331-1337.	2.1	51
10	Intermolecular Interactions in Bithiophene as a Model for Polythiophene. <i>Journal of Physical Chemistry A</i> , 2003, 107, 8980-8984.	2.5	44
11	Dynamics of heparan sulfate explored by neutron scattering. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 3360.	2.8	41
12	Tuning ionic conductivity and electrode compatibility of Li <sub>3</sub> YBr <sub>6</sub> for high-performance all solid-state Li batteries. <i>Nano Energy</i> , 2020, 77, 105097.	16.0	41
13	Investigation of Li-ion transport in Li <sub>7</sub> P <sub>3</sub> S <sub>11</sub> and solid-state lithium batteries. <i>Journal of Energy Chemistry</i> , 2019, 38, 1-7.	12.9	38
14	Design and performance of a novel neutron powder diffractometer: PEARL at TU Delft. <i>Journal of Applied Crystallography</i> , 2016, 49, 1398-1401.	4.5	34
15	Macromolecular dynamics in red blood cells investigated using neutron spectroscopy. <i>Journal of the Royal Society Interface</i> , 2011, 8, 590-600.	3.4	32
16	Protein Surface and Core Dynamics Show Concerted Hydration-Dependent Activation. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 665-668.	13.8	32
17	Neutron diffraction study on the magnetic structure of Fe <sub>2</sub> P-based Mn <sub>0.66</sub> Fe <sub>1.29</sub> P <sub>16</sub> melt-spun ribbons. <i>Journal of Magnetism and Magnetic Materials</i> , 2013, 340, 80-85.	2.3	30
18	<i>PDFgetN3</i> : atomic pair distribution functions from neutron powder diffraction data using <i>ad-hoc</i> corrections. <i>Journal of Applied Crystallography</i> , 2018, 51, 1492-1497.	4.5	29

#	ARTICLE	IF	CITATIONS
19	Combined effect of annealing temperature and vanadium substitution for magnetocaloric Mn <sub>1.2</sub> -VFe <sub>0.75</sub> P <sub>0.5</sub> Si <sub>0.5</sub> alloys. <i>Journal of Alloys and Compounds</i> , 2019, 803, 671-677.	5.5	27
20	ECNS Instrumentation Report. <i>Neutron News</i> , 2016, 27, 9-9.	0.2	24
21	Impact of Nanostructuring on the Phase Behavior of Insertion Materials: The Hydrogenation Kinetics of a Magnesium Thin Film. <i>Journal of Physical Chemistry C</i> , 2016, 120, 10185-10191.	3.1	23
22	<i>In situ</i> high-temperature EXAFS measurements on radioactive and air-sensitive molten salt materials. <i>Journal of Synchrotron Radiation</i> , 2019, 26, 124-136.	2.4	22
23	Understanding the Activation of ZSM-5 by Phosphorus: Localizing Phosphate Groups in the Pores of Phosphate-Stabilized ZSM-5. <i>Chemistry of Materials</i> , 2020, 32, 9390-9403.	6.7	21
24	Structural and thermodynamic study of cesium molybdate Cs <sub>2</sub> Mo <sub>2</sub> O <sub>7</sub> : Implications for fast neutron reactors. <i>Journal of Solid State Chemistry</i> , 2017, 253, 89-102.	2.9	20
25	Phase Transitions of Thermoelectric TAGS-85. <i>Inorganic Chemistry</i> , 2017, 56, 15091-15100.	4.0	20
26	Activity and molecular dynamics relationship within the family of human cholinesterases. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 6764.	2.8	18
27	Cold working consequence on the magnetocaloric effect of Ni <sub>50</sub> Mn <sub>34</sub> In <sub>16</sub> Heusler alloy. <i>Journal of Alloys and Compounds</i> , 2018, 749, 211-216.	5.5	18
28	Energy Landscapes of Human Acetylcholinesterase and Its Huperzine A-Inhibited Counterpart. <i>Journal of Physical Chemistry B</i> , 2012, 116, 14744-14753.	2.6	17
29	Tuning the magneto-elastic transition of (Mn,Fe,V) <sub>2</sub> (P,Si) alloys to low magnetic field applications. <i>Journal of Alloys and Compounds</i> , 2020, 821, 153451.	5.5	17
30	Thermodynamic study of Cs <sub>3</sub> Na(MoO <sub>4</sub> ) <sub>2</sub> : Determination of the standard enthalpy of formation and standard entropy at 298.15 K. <i>Journal of Chemical Thermodynamics</i> , 2018, 120, 205-216.	2.0	15
31	The Central Atom Size Effect on the Structure of Group 14 Tetratolyls. <i>Chemistry - A European Journal</i> , 2009, 15, 6569-6572.	3.3	14
32	Localization of ferrocene in NaY zeolite by powder x-ray and neutron diffraction. <i>Journal of Chemical Physics</i> , 2002, 116, 10838-10845.	3.0	12
33	Neutron tomography of Van Leeuwenhoek's microscopes. <i>Science Advances</i> , 2021, 7, .	10.3	11
34	Hugo Rietveld (1932–2016). <i>Journal of Applied Crystallography</i> , 2016, 49, 1394-1395.	4.5	11
35	Localized Relaxational Dynamics of Succinonitrile. <i>Journal of Physical Chemistry C</i> , 2009, 113, 15007-15013.	3.1	9
36	Softening of the potential-energy surface in polymer electrolytes on the addition of nanoparticles. <i>Chemical Physics</i> , 2005, 317, 282-288.	1.9	8

#	ARTICLE	IF	CITATIONS
37	A quantitative study of the charge-transfer between conjugated thiophene rings in vibrationally excited states. <i>Physica B: Condensed Matter</i> , 2004, 350, 220-223.	2.7	7
38	Effect of Nanocrystalline Materials on Ionic Interactions in Polymer Electrolytes. <i>Macromolecules</i> , 2004, 37, 9591-9595.	4.8	7
39	Thermal motion in the multi-subunit protein, apoferritin, as probed by high energy resolution neutron spectroscopy. <i>Soft Matter</i> , 2011, 7, 6934.	2.7	7
40	Dynamics and Lithium Binding Energies of Polyelectrolytes Based on Functionalized Poly(para-phenylene terephthalamide). <i>Journal of Physical Chemistry B</i> , 2005, 109, 7705-7712.	2.6	6
41	Elastic scattering studies of aligned DMPC multilayers on different hydrations <sup>1</sup> . <i>Spectroscopy</i> , 2010, 24, 461-466.	0.8	6
42	Local structure in a polymer-electrolyte model system with and without nanoparticles. <i>Physica B: Condensed Matter</i> , 2004, 350, E987-E990.	2.7	5
43	The structure of diaminodurene and the dynamics of the methyl groups. <i>Journal of Chemical Physics</i> , 2009, 130, 164519.	3.0	5
44	Report of the Double-Molybdate Phase Cs <sub>2</sub> Ba(MoO <sub>4</sub> ) <sub>2</sub> with a Palmierite Structure and Its Thermodynamic Characterization. <i>Inorganic Chemistry</i> , 2020, 59, 13162-13173.	4.0	5
45	Gamma sensitivity of a ZnS:Ag(6-LiF) wavelength shifting fiber neutron detector in mixed neutron-gamma fields. , 2012, , .		4
46	Structural and thermodynamic study of Cs <sub>3</sub> Na(MoO <sub>4</sub> ) <sub>2</sub> : Margin to the safe operation of sodium cooled fast reactors. <i>Journal of Solid State Chemistry</i> , 2019, 269, 1-8.	2.9	4
47	FISH: A thermal neutron imaging station at HOR Delft. <i>Journal of Archaeological Science: Reports</i> , 2018, 20, 369-373.	0.5	3
48	Investigation of dehydrogenation of Ti-V-Cr alloy by using in-situ neutron diffraction. <i>Journal of Alloys and Compounds</i> , 2020, 844, 156130.	5.5	3
49	INS as a probe of inter-monomer angles in polymers. <i>Applied Physics A: Materials Science and Processing</i> , 2002, 74, s496-s498.	2.3	2
50	Structural and magnetic properties of hexagonal $\text{Mn}_2\text{Fe}_2\text{O}_7$ <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 433, 297-302.	2.3	2
51	A case study for scientific research prior to conservation of marine metal artefacts. <i>Journal of Archaeological Science: Reports</i> , 2021, 37, 102909.	0.5	2
52	Structural and Thermodynamic Investigation of the Perovskite Ba <sub>2</sub> NaMoO <sub>5.5</sub> . <i>Inorganic Chemistry</i> , 2020, 59, 6120-6130.	4.0	1
53	Investigation of the Cs <sub>2</sub> (Mo,Tc)O <sub>4</sub> Solid Solution and Implications on the Joint Oxyde-Gaine System in Fast Neutron Reactors. <i>Inorganic Chemistry</i> , 2020, 59, 10172-10184.	4.0	1
54	Neutron Diffraction Study of a Sintered Iron Electrode In Operando. <i>Journal of Physical Chemistry C</i> , 2021, 125, 16391-16402.	3.1	1

#	ARTICLE	IF	CITATIONS
55	Are the Glass Forming Properties of Glycerol Changed when Disrupting the Hydrogen Bond Network by Addition of Silica Nanospheres?. Zeitschrift Fur Physikalische Chemie, 2010, 224, 101-107.	2.8	0
56	Unravelling the construction of silver filigree spheres from a seventeenth century shipwreck using non-invasive imaging. Heritage Science, 2022, 10, .	2.3	0