

# Leo van Wassen

## List of Publications by Year in descending order

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37  
papers

784  
citations

516710

16  
h-index

526287

27  
g-index

37  
all docs

37  
docs citations

37  
times ranked

993  
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct determination of ionic transference numbers in ionic liquids by electrophoretic NMR. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 30680-30686.	2.8	95
2	Lithium Ion Mobility in Lithium Phosphosilicates: Crystal Structure, ${}^7\text{Li}$ , ${}^{29}\text{Si}$ , and ${}^{31}\text{P}$ MAS NMR Spectroscopy, and Impedance Spectroscopy of $\text{Li}_8\text{SiP}_4$ and $\text{Li}_2\text{SiP}_2$ . <i>Chemistry - A European Journal</i> , 2016, 22, 17635-17645.	3.3	62
3	Fast Ionic Conductivity in the Most Lithium-Rich Phosphosilicate $\text{Li}_{14}\text{SiP}_6$ . <i>Journal of the American Chemical Society</i> , 2019, 141, 14200-14209.	13.7	49
4	Enhancement of Li Ion Conductivity by Electrospun Polymer Fibers and Direct Fabrication of Solvent-Free Separator Membranes for Li Ion Batteries. <i>Inorganic Chemistry</i> , 2017, 56, 2100-2107.	4.0	44
5	Stabilizing the Phase $\text{Li}_{15}\text{Si}_4$ through Lithium-Aluminum Substitution in $\text{Li}_{15-x}\text{Al}_x\text{Si}_4$ ( $0.4 \leq x \leq 0.8$ ) Single Crystal X-ray Structure Determination of $\text{Li}_{15}\text{Si}_4$ and $\text{Li}_{14.37}\text{Al}_{0.63}\text{Si}_4$ . <i>Chemistry of Materials</i> , 2013, 25, 4113-4121.	6.7	42
6	Structure, phase separation and Li dynamics in sol-gel-derived $\text{Li}_{1+x}\text{Al}_x\text{Ge}_2(\text{PO}_4)_3$ . <i>Solid State Ionics</i> , 2015, 276, 47-55.	2.7	41
7	The effect of plastic-crystalline succinonitrile on the electrolyte system PEO:LiBF <sub>4</sub> : Insights from solid state NMR. <i>Solid State Ionics</i> , 2014, 260, 65-75.	2.7	39
8	The Route to the Structure Determination of Amorphous Solids: A Case Study of the Ceramic $\text{Si}_3\text{B}_3\text{N}_7$ . <i>Angewandte Chemie - International Edition</i> , 2006, 45, 4244-4263.	13.8	38
9	Random inorganic networks: a novel class of high-performance ceramics. <i>Journal of Materials Chemistry</i> , 2001, 11, 223-229.	6.7	36
10	In-situ reaction monitoring of a mechanochemical ball mill reaction with solid state NMR. <i>Solid State Nuclear Magnetic Resonance</i> , 2020, 109, 101687.	2.3	35
11	Study of the glass-to-crystal transformation of the NASICON-type solid electrolyte $\text{Li}_{1+x}\text{Al}_x\text{Ge}_2(\text{PO}_4)_3$ . <i>Solid State Ionics</i> , 2016, 295, 32-40.	2.7	32
12	Lithium Phosphidogermanates $\text{Li}_8\text{GeP}_4$ : A Novel Compound Class with Mixed Li <sup>+</sup> Ionic and Electronic Conductivity. <i>Chemistry of Materials</i> , 2018, 30, 6440-6448.	6.7	30
13	Fast Lithium Ion Conduction in Lithium Phosphoaluminates. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 5665-5674.	13.8	28
14	Modification of silicophosphate glass composition, structure, and properties via crucible material and melting conditions. <i>International Journal of Applied Glass Science</i> , 2020, 11, 46-57.	2.0	25
15	Modifying the Properties of Fast Lithium-Ion Conductors: The Lithium Phosphidotetrelates $\text{Li}_{14}\text{SiP}_6$ , $\text{Li}_{14}\text{GeP}_6$ , and $\text{Li}_{14}\text{SnP}_6$ . <i>Chemistry of Materials</i> , 2020, 32, 6925-6934.	6.7	21
16	Electrospun Li(TFSI) <sub>2</sub> @Polyethylene Oxide Membranes as Solid Electrolytes. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2018, 644, 1863-1874.	1.2	19
17	Structural Role of Phosphate in Metaluminous Sodium Aluminosilicate Glasses As Studied by Solid State NMR Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2020, 124, 2691-2701.	2.6	17
18	Relationships between fragility and structure through viscosity and high temperature NMR measurements in $\text{Li}_2\text{O} \cdot \text{ZnO} \cdot \text{P}_2\text{O}_5$ phosphate glasses. <i>Journal of Non-Crystalline Solids</i> , 2015, 428, 54-61.	3.1	15

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19	Substitution of Lithium for Magnesium, Zinc, and Aluminum in $\text{Li}_{15}\text{Si}_4$ : Crystal Structures, Thermodynamic Properties, as well as $^6\text{Li}$ and $^7\text{Li}$ NMR Spectroscopy of $\text{Li}_{15}\text{Si}_4$ and $\text{Li}_{15}\text{M}_x\text{Si}_4$ (M=Mg, Zn, and Al). <i>Chemistry - A European Journal</i> , 2016, 22, 6598-6609.	3.3	13
20	Tailoring the Mechanical Properties of Metaluminous Aluminosilicate Glasses by Phosphate Incorporation. <i>Frontiers in Materials</i> , 2020, 7, .	2.4	11
21	High-temperature MAS-NMR at high spinning speeds. <i>Solid State Nuclear Magnetic Resonance</i> , 2016, 78, 37-39.	2.3	10
22	Solid state NMR at very high temperatures. <i>Progress in Nuclear Magnetic Resonance Spectroscopy</i> , 2019, 114-115, 71-85.	7.5	10
23	Fast Lithium Ion Conduction in Lithium Phosphidoaluminates. <i>Angewandte Chemie</i> , 2020, 132, 5714-5723.	2.0	10
24	Structure and Dynamics of LiPON and NaPON Oxynitride Phosphate Glasses by Solid-State NMR. <i>Journal of Physical Chemistry C</i> , 2021, 125, 4077-4085.	3.1	10
25	Phase Separation and Nanocrystallization in $\text{KF}^{\text{ZnF}_2}\text{SiO}_2$ Glasses: Lessons from Solid-State NMR. <i>Journal of Physical Chemistry B</i> , 2019, 123, 1688-1695.	2.6	9
26	Incorporation of niobium into bridged silsesquioxane based silica networks. <i>Journal of Sol-Gel Science and Technology</i> , 2014, 70, 473-481.	2.4	8
27	Synthesis, structure and diffusion pathways of fast lithium-ion conductors in the polymorphs $\text{Li}_8\text{SnP}_4$ . <i>Journal of Materials Chemistry A</i> , 2021, 9, 15254-15268.	10.3	8
28	Fast Lithium-Ion Conduction in Phosphide $\text{Li}_9\text{GaP}_4$ . <i>Chemistry of Materials</i> , 2021, 33, 2957-2966.	6.7	7
29	Local Li Coordination and Ionic Transport in Methacrylate-Based Gel Polymer Electrolytes. <i>ChemPhysChem</i> , 2013, 14, 3113-3120.	2.1	5
30	Long-term entrapment and temperature-controlled-release of $\text{SF}_6$ gas in metal-organic frameworks (MOFs). <i>Beilstein Journal of Nanotechnology</i> , 2019, 10, 1851-1859.	2.8	5
31	Development and application of novel NMR methodologies for the in situ characterization of crystallization processes of metastable crystalline materials. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2017, 232, 141-159.	0.8	4
32	Synthesis and Characterization of an Azobenzene-Functionalized Ethene-Bridged PMO. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2014, 640, 561-564.	1.2	2
33	$\text{Li}_5\text{SnP}_3$ - a Member of the Series $\text{Li}_{10+4x}\text{Sn}_{2x}\text{P}_6$ for $x=0$ Comprising the Fast Lithium-Ion		

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37	Tribute to Hellmut Eckert. Journal of Physical Chemistry C, 2021, 125, 8919-8920.	3.1	0