

# Kent J Griffith

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

47 papers	2,332 citations	20 h-index	48 g-index
55 ext. papers	2,996 ext. citations	10.9 avg, IF	5.6 L-index

#	Paper	IF	Citations
47	NMR reveals the surface functionalisation of Ti3C2 MXene. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 5099-102	3.6	491
46	Niobium tungsten oxides for high-rate lithium-ion energy storage. <i>Nature</i> , <b>2018</b> , 559, 556-563	50.4	373
45	Materials Methods: NMR in Battery Research. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 213-242	9.6	196
44	High-Rate Intercalation without Nanostructuring in Metastable Nb2O5 Bronze Phases. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 8888-99	16.4	173
43	Ab Initio Study of Phosphorus Anodes for Lithium- and Sodium-Ion Batteries. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 2011-2021	9.6	139
42	Evolution of Structure and Lithium Dynamics in LiNi0.8Mn0.1Co0.1O2 (NMC811) Cathodes during Electrochemical Cycling. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 2545-2554	9.6	116
41	Crystal Structures, Local Atomic Environments, and Ion Diffusion Mechanisms of Scandium-Substituted Sodium Superionic Conductor (NASICON) Solid Electrolytes. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 2618-2630	9.6	76
40	Ionic and Electronic Conduction in TiNbO. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 16706-16715	16.4	74
39	Sodiation and Desodiation via Helical Phosphorus Intermediates in High-Capacity Anodes for Sodium-Ion Batteries. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 7994-8004	16.4	68
38	Sodium Intercalation Mechanism of 3.8 V Class Alluaudite Sodium Iron Sulfate. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 5321-5328	9.6	62
37	Lattice-contraction triggered synchronous electrochromic actuator. <i>Nature Communications</i> , <b>2018</b> , 9, 4798	17.4	52
36	Structural Stability from Crystallographic Shear in TiO-NbO Phases: Cation Ordering and Lithiation Behavior of TiNbO. <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 4002-4010	5.1	51
35	Titanium Niobium Oxide: From Discovery to Application in Fast-Charging Lithium-Ion Batteries. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 4-18	9.6	47
34	Enhanced efficiency of solid-state NMR investigations of energy materials using an external automatic tuning/matching (eATM) robot. <i>Journal of Magnetic Resonance</i> , <b>2017</b> , 275, 127-136	3	35
33	Electrochemistry of substituted salen complexes of nickel(II): Nickel(I)-catalyzed reduction of alkyl and acetylenic halides. <i>Journal of Electroanalytical Chemistry</i> , <b>2010</b> , 647, 194-203	4.1	34
32	Cation Disorder and Lithium Insertion Mechanism of Wadsley-Roth Crystallographic Shear Phases from First Principles. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 15121-15134	16.4	32
31	Expanding the chemistry of borates with functional [BO] anions. <i>Nature Communications</i> , <b>2021</b> , 12, 2597	17.4	28

30	Lithium Diffusion in Niobium Tungsten Oxide Shear Structures. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 3980-3988	9.8	25
29	Microstructure Engineered Ni-Rich Layered Cathode for Electric Vehicle Batteries. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2100884	21.8	21
28	First-principles study of localized and delocalized electronic states in crystallographic shear phases of niobium oxide. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	20
27	Structural Evolution and Atom Clustering in $\delta$ -SiAlON: $\delta$ -SiAlON. <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 2153-2158	5.1	19
26	Interface Instability in $\text{LiFePO}_4/\text{Li}_3+\text{xP1}\text{Si}_x\text{O}_4$ All-Solid-State Batteries. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 5886-5895	9.6	19
25	Superionic Lithium Intercalation through 2 $\times$ 2 nm <sup>2</sup> Columns in the Crystallographic Shear Phase Nb <sub>18</sub> W <sub>8</sub> O <sub>69</sub> . <i>Chemistry of Materials</i> , <b>2020</b> , 32, 3860-3868	9.6	19
24	The Role of Ionic Liquid Breakdown in the Electrochemical Metallization of VO: An NMR Study of Gating Mechanisms and VO Reduction. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 16685-16696	16.4	19
23	Characterizing the Structure and Phase Transition of $\text{Li}_2\text{RuO}_3$ Using Variable-Temperature $^{17}\text{O}$ and $^7\text{Li}$ NMR Spectroscopy. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 2814-2821	9.6	15
22	Selected overtone mobility spectrometry. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 5132-8	7.8	15
21	Machine-Learning-Assisted Synthesis of Polar Racemates. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 7555-7566	16.4	15
20	Bulk and Surface Chemistry of the Niobium MAX and MXene Phases from Multinuclear Solid-State NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 18924-18935	16.4	15
19	Nb-Mediated Grain Growth and Grain-Boundary Engineering in $\text{Mg}_3\text{Sb}_2$ -Based Thermoelectric Materials. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2100258	15.6	15
18	Recent Advances in Solid-State Nuclear Magnetic Resonance Techniques for Materials Research. <i>Annual Review of Materials Research</i> , <b>2020</b> , 50, 493-520	12.8	8
17	Tunable Intracrystal Cavity in Tungsten Bronze-Like Bimetallic Oxides for Electrochromic Energy Storage. <i>Advanced Energy Materials</i> , 2103106	21.8	7
16	High-rate lithium ion energy storage to facilitate increased penetration of photovoltaic systems in electricity grids. <i>MRS Energy &amp; Sustainability</i> , <b>2019</b> , 6, 1	2.2	6
15	$\text{LiIn}_2\text{SbO}_6$ : A New Rutile-Related Structure Type with Unique Ion Channels. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 4785-4794	9.6	6
14	Multimodal Structure Solution with $^1\text{F}$ NMR Crystallography of Spin Singlet Molybdenum Oxyfluorides. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 12288-12298	16.4	6
13	Alkyl-group grafting onto glassy carbon cathodes by reduction of primary monohaloalkanes: electrochemistry and X-ray photoelectron spectroscopy studies. <i>Journal of Electroanalytical Chemistry</i> , <b>2020</b> , 856, 113531	4.1	6

12	Natural abundance solid-state S NMR study of NbS <sub>2</sub> : applications for battery conversion electrodes. <i>Chemical Communications</i> , <b>2019</b> , 55, 12687-12690	5.8	6
11	High Rate Lithium Ion Battery with Niobium Tungsten Oxide Anode. <i>Journal of the Electrochemical Society</i> , <b>2021</b> , 168, 010525	3.9	5
10	Zintl Phases K <sub>4</sub> NaxSi <sub>4</sub> (1 ≤ x ≤ 2.2) and K <sub>7</sub> NaSi <sub>8</sub> : Synthesis, Crystal Structures, and Solid-State NMR Spectroscopic Investigations. <i>European Journal of Inorganic Chemistry</i> , <b>2016</b> , 2016, 4674-4682	2.3	4
9	Transition Metal Migration Can Facilitate Ionic Diffusion in Defect Garnet-Based Intercalation Electrodes. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 1448-1455	20.1	3
8	Fluoridation of HfO <sub>2</sub> . <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 4463-4474	5.1	3
7	Energy storage mechanisms in vacancy-ordered Wadsley-Roth layered niobates. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 20006-20023	13	3
6	Electrochemical Oxidative Fluorination of an Oxide Perovskite. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 5757-5768	6.8	2
5	Solid-state nuclear magnetic resonance of spin-9/2 nuclei In and Bi in functional inorganic complex oxides. <i>Magnetic Resonance in Chemistry</i> , <b>2021</b> , 59, 1077-1088	2.1	1
4	Possibility of interstitial Na as electron donor in Yb <sub>14</sub> MgSb <sub>11</sub> . <i>MRS Communications</i> , <b>2021</b> , 11, 226-232	2.7	1
3	Expanding the Ambient-Pressure Phase Space of CaFe <sub>2</sub> O <sub>4</sub> -Type Sodium Postspinel Host-Guest Compounds. <i>ACS Organic &amp; Inorganic Au</i> , <b>2021</b> , 1, 100-109	1	1
2	Perovskite-like KTiOF Exhibits (3 + 1)-Dimensional Commensurate Structure Induced by Octahedrally Coordinated Potassium Ions. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 18907-18916	16.4	0
1	The crystal structure of LiSc <sub>2</sub> SbO <sub>6</sub> . <i>Journal of Solid State Chemistry</i> , <b>2021</b> , 122615	3.3	0