

# Leighanne C Gallington

## List of Publications by Year in descending order

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54  
papers

2,215  
citations

218677

26  
h-index

223800

46  
g-index

56  
all docs

56  
docs citations

56  
times ranked

3191  
citing authors

#	ARTICLE	IF	CITATIONS
1	Metal-Organic Framework Supported Cobalt Catalysts for the Oxidative Dehydrogenation of Propane at Low Temperature. ACS Central Science, 2017, 3, 31-38.	11.3	222
2	Nature of the $\alpha$ -Zn-phase in layered Na-ion battery cathodes. Energy and Environmental Science, 2019, 12, 2223-2232.	30.8	159
3	Imidazoquinoline Toll-like receptor 8 agonists activate human newborn monocytes and dendritic cells through adenosine-refractory and caspase-1-dependent pathways. Journal of Allergy and Clinical Immunology, 2012, 130, 195-204.e9.	2.9	115
4	Structural Transitions of the Metal-Oxide Nodes within Metal-Organic Frameworks: On the Local Structures of NU-1000 and UiO-66. Journal of the American Chemical Society, 2016, 138, 4178-4185.	13.7	108
5	Sinter-Resistant Platinum Catalyst Supported by Metal-Organic Framework. Angewandte Chemie - International Edition, 2018, 57, 909-913.	13.8	88
6	Synthesis and characterization of bulk $\text{Nd}_2\text{O}_3$ and $\text{Nd}_2\text{O}_3$ and $\text{Nd}_2\text{O}_3$ and $\text{Nd}_2\text{O}_3$ . Physical Review Materials, 2020, 4,	2.4	87
7	Large Negative Thermal Expansion and Anomalous Behavior on Compression in Cubic $\text{ReO}_3$ -Type $\text{AB}_2\text{F}_6$ and $\text{CaZrF}_6$ and $\text{CaHfF}_6$ . Chemistry of Materials, 2015, 27, 3912-3918.	6.7	86
8	Stable Metal-Organic Framework-Supported Niobium Catalysts. Inorganic Chemistry, 2016, 55, 11954-11961.	4.0	85
9	Thermal Stabilization of Metal-Organic Framework-Derived Single-Site Catalytic Clusters through Nanocasting. Journal of the American Chemical Society, 2016, 138, 2739-2748.	13.7	83
10	Regioselective Atomic Layer Deposition in Metal-Organic Frameworks Directed by Dispersion Interactions. Journal of the American Chemical Society, 2016, 138, 13513-13516.	13.7	78
11	Bridging Zirconia Nodes within a Metal-Organic Framework via Catalytic Ni-Hydroxo Clusters to Form Heterobimetallic Nanowires. Journal of the American Chemical Society, 2017, 139, 10410-10418.	13.7	74
12	Negative thermal expansion and compressibility of $\text{Sc}_x\text{Y}_{1-x}\text{F}_3$ ( $x=0.25$ ). Journal of Applied Physics, 2013, 114, .	2.5	68
13	Evolution of Negative Thermal Expansion and Phase Transitions in $\text{Sc}_{1-x}\text{Ti}_x\text{F}_3$ . Chemistry of Materials, 2014, 26, 1936-1940.	6.7	67
14	Addressing the characterisation challenge to understand catalysis in MOFs: the case of nanoscale Cu supported in NU-1000. Faraday Discussions, 2017, 201, 337-350.	3.2	66
15	TLR2 Mediates Recognition of Live Staphylococcus epidermidis and Clearance of Bacteremia. PLoS ONE, 2010, 5, e10111.	2.5	62
16	Installing Heterobimetallic Cobalt-Aluminum Single Sites on a Metal Organic Framework Support. Chemistry of Materials, 2016, 28, 6753-6762.	6.7	56
17	Solid solubility, phase transitions, thermal expansion, and compressibility in $\text{Sc}_x\text{Al}_{1-x}\text{F}_3$ . Journal of Solid State Chemistry, 2015, 222, 96-102.	2.9	54
18	Elucidating Ionic Correlations Beyond Simple Charge Alternation in Molten $\text{MgCl}_2$ -KCl Mixtures. Journal of Physical Chemistry Letters, 2019, 10, 7603-7610.	4.6	49

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19	Atomic Layer Deposition in a Metal-Organic Framework: Synthesis, Characterization, and Performance of a Solid Acid. <i>Chemistry of Materials</i> , 2017, 29, 1058-1068.	6.7	45
20	Bactericidal/Permeability-Increasing Protein (rBPI <sub>21</sub> ) and Fluoroquinolone Mitigate Radiation-Induced Bone Marrow Aplasia and Death. <i>Science Translational Medicine</i> , 2011, 3, 110ra118.	12.4	38
21	Temperature Dependence of Short and Intermediate Range Order in Molten MgCl <sub>2</sub> and Its Mixture with KCl. <i>Journal of Physical Chemistry B</i> , 2020, 124, 2892-2899.	2.6	38
22	The Synthesis Science of Targeted Vapor-Phase Metal-Organic Framework Postmodification. <i>Journal of the American Chemical Society</i> , 2020, 142, 242-250.	13.7	32
23	The Structure of Liquid and Amorphous Hafnia. <i>Materials</i> , 2017, 10, 1290.	2.9	31
24	Adenosine modulates Toll-like receptor function: basic mechanisms and translational opportunities. <i>Expert Review of Anti-Infective Therapy</i> , 2011, 9, 261-269.	4.4	29
25	Vapor-Phase Fabrication and Condensed-Phase Application of a MOF-Node-Supported Iron Thiolate Photocatalyst for Nitrate Conversion to Ammonium. <i>ACS Applied Energy Materials</i> , 2019, 2, 8695-8700.	5.1	29
26	Experimentally Driven Automated Machine-Learned Interatomic Potential for a Refractory Oxide. <i>Physical Review Letters</i> , 2021, 126, 156002.	7.8	28
27	Intermediate range order in supercooled water. <i>Molecular Physics</i> , 2019, 117, 2470-2476.	1.7	23
28	Unraveling Local Structure of Molten Salts via X-ray Scattering, Raman Spectroscopy, and <i>Ab Initio</i> Molecular Dynamics. <i>Journal of Physical Chemistry B</i> , 2021, 125, 5971-5982.	2.6	23
29	Orientational order-dependent thermal expansion and compressibility of ZrW <sub>2</sub> O <sub>8</sub> and ZrMo <sub>2</sub> O <sub>8</sub> . <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 19665.	2.8	22
30	Dramatic softening of the negative thermal expansion material HfW <sub>2</sub> O <sub>8</sub> upon heating through its WO <sub>4</sub> orientational order-disorder phase transition. <i>Journal of Applied Physics</i> , 2014, 115, 053512.	2.5	21
31	The Molecular Path Approaching the Active Site in Catalytic Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2021, 143, 20090-20094.	13.7	21
32	Thermodynamic stability limits of simple monoatomic materials. <i>Journal of Chemical Physics</i> , 2010, 132, 174707.	3.0	20
33	Revealing causes of macroscale heterogeneity in lithium ion pouch cells via synchrotron X-ray diffraction. <i>Journal of Power Sources</i> , 2021, 507, 230253.	7.8	20
34	Thermodynamically Driven Synthetic Optimization for Cation-Disordered Rock Salt Cathodes. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	20
35	Nanoscale Metastable $\mu$ -Fe <sub>3</sub> N Ferromagnetic Materials by Self-Sustained Reactions. <i>Inorganic Chemistry</i> , 2019, 58, 5583-5592.	4.0	17
36	Regioselective Functionalization of the Mesoporous Metal-Organic Framework, NU-1000, with Photo-Active Tris-(2,2'-bipyridine)ruthenium(II). <i>ACS Omega</i> , 2020, 5, 30299-30305.	3.5	17

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37	History-dependent thermal expansion in NbO <sub>2</sub> F. <i>Journal of Solid State Chemistry</i> , 2014, 213, 38-42.	2.9	15
38	Isomerization and Selective Hydrogenation of Propyne: Screening of Metal-Organic Frameworks Modified by Atomic Layer Deposition. <i>Journal of the American Chemical Society</i> , 2020, 142, 20380-20389.	13.7	15
39	Catalytically Active Silicon Oxide Nanoclusters Stabilized in a Metal-Organic Framework. <i>Chemistry - A European Journal</i> , 2017, 23, 8532-8536.	3.3	14
40	Defective Sn-Zn perovskites through bio-directed routes for modulating CO <sub>2</sub> RR. <i>Nano Energy</i> , 2022, 101, 107593.	16.0	14
41	Endotoxin-Directed Innate Immunity in Tracheal Aspirates of Mechanically Ventilated Human Neonates. <i>Pediatric Research</i> , 2009, 66, 191-196.	2.3	13
42	Phase transformations in oxides above 2000°C: experimental technique development. <i>Advances in Applied Ceramics</i> , 2018, 117, s82-s89.	1.1	11
43	Pressure-dependence of the phase transitions and thermal expansion in zirconium and hafnium pyrovanadate. <i>Journal of Solid State Chemistry</i> , 2017, 249, 46-50.	2.9	10
44	Identification of single nucleotide polymorphisms in hematopoietic cell transplant patients affecting early recognition of, and response to, endotoxin. <i>Innate Immunity</i> , 2014, 20, 697-711.	2.4	9
45	Kinetics and mechanism of mechanochemical synthesis of hafnium nitride ceramics in a planetary ball mill. <i>Ceramics International</i> , 2019, 45, 24818-24826.	4.8	8
46	Purinergic signalling in the inner ear—perspectives and progress. <i>Purinergic Signalling</i> , 2010, 6, 151-153.	2.2	7
47	Phase behaviour, thermal expansion and compressibility of SnMo <sub>2</sub> O <sub>8</sub> . <i>Journal of Solid State Chemistry</i> , 2018, 258, 885-893.	2.9	6
48	Disordered TiO <sub>2</sub> Nanocatalysts Using Bioinspired Synthetic Routes. <i>ACS Applied Energy Materials</i> , 2021, 4, 7691-7701.	5.1	5
49	Sinter-Resistant Platinum Catalyst Supported by Metal-Organic Framework. <i>Angewandte Chemie</i> , 2018, 130, 921-925.	2.0	3
50	Low-temperature synthesis of superconducting iron selenide using a triphenylphosphine flux. <i>Dalton Transactions</i> , 2019, 48, 16298-16303.	3.3	1
51	Early Deficiency of Endogenous Proteins Inhibiting LPS-Induced TNF- $\alpha$ Production Correlates with Acute Graft vs Host Disease (aGVHD) after Myeloablative Stem Cell Transplantation (SCT). <i>Blood</i> , 2007, 110, 1058-1058.	1.4	1
52	Myeloablative Hematopoietic Stem Cell Transplantation (HSCT) Is Accompanied by Endotoxemia, Activation of Endotoxin-Directed Innate Immunity, and Deficiency of Endogenous Proteins That Limit Endotoxin- Induced TNF Production. <i>Blood</i> , 2008, 112, 800-800.	1.4	1
53	Phase behavior and thermoelastic properties of SnMo <sub>2</sub> O <sub>8</sub> under hydrostatic pressure. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2014, 70, C156-C156.	0.1	0
54	Laser heating of polycrystalline nuclear materials. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	0