

Leighanne C Gallington

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

2,215
citations

218677

26
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223800

46
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56
all docs

56
docs citations

56
times ranked

3191
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermodynamically Driven Synthetic Optimization for Cation-Disordered Rock Salt Cathodes. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	20
2	Defective Sn-Zn perovskites through bio-directed routes for modulating CO ₂ RR. <i>Nano Energy</i> , 2022, 101, 107593.	16.0	14
3	Experimentally Driven Automated Machine-Learned Interatomic Potential for a Refractory Oxide. <i>Physical Review Letters</i> , 2021, 126, 156002.	7.8	28
4	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
5	Disordered TiO _x SiO _x Nanocatalysts Using Bioinspired Synthetic Routes. <i>ACS Applied Energy Materials</i> , 2021, 4, 7691-7701.	5.1	5
6	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
7	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
8	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
9	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
10	Temperature Dependence of Short and Intermediate Range Order in Molten MgCl ₂ and Its Mixture with KCl. <i>Journal of Physical Chemistry B</i> , 2020, 124, 2892-2899.	2.6	38
11	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
12	Synthesis and characterization of bulk NdO_2 and Nd_2O_3 . <i>Physical Review Materials</i> , 2020, 4, .	2.4	87
13	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
14	Nature of the ZrO_2 -phase in layered Na-ion battery cathodes. <i>Energy and Environmental Science</i> , 2019, 12, 2223-2232.	30.8	159
15	Intermediate range order in supercooled water. <i>Molecular Physics</i> , 2019, 117, 2470-2476.	1.7	23
16	Nanoscale Metastable $\mu\text{-Fe}_3\text{N}$ Ferromagnetic Materials by Self-Sustained Reactions. <i>Inorganic Chemistry</i> , 2019, 58, 5583-5592.	4.0	17
17	Laser heating of polycrystalline nuclear materials. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	0
18	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

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19	Low-temperature synthesis of superconducting iron selenide using a triphenylphosphine flux. Dalton Transactions, 2019, 48, 16298-16303.	3.3	1
20	Elucidating Ionic Correlations Beyond Simple Charge Alternation in Molten MgCl ₂ •KCl Mixtures. Journal of Physical Chemistry Letters, 2019, 10, 7603-7610.	4.6	49
21	Phase behaviour, thermal expansion and compressibility of SnMo ₂ O ₈ . Journal of Solid State Chemistry, 2018, 258, 885-893.	2.9	6
22	Sinter-Resistant Platinum Catalyst Supported by Metal-Organic Framework. Angewandte Chemie - International Edition, 2018, 57, 909-913.	13.8	88
23	Phase transformations in oxides above 2000°C: experimental technique development. Advances in Applied Ceramics, 2018, 117, s82-s89.	1.1	11
24	Sinter-Resistant Platinum Catalyst Supported by Metal-Organic Framework. Angewandte Chemie, 2018, 130, 921-925.	2.0	3
25	Atomic Layer Deposition in a Metal-Organic Framework: Synthesis, Characterization, and Performance of a Solid Acid. Chemistry of Materials, 2017, 29, 1058-1068.	6.7	45
26	Pressure-dependence of the phase transitions and thermal expansion in zirconium and hafnium pyrovanadate. Journal of Solid State Chemistry, 2017, 249, 46-50.	2.9	10
27	Catalytically Active Silicon Oxide Nanoclusters Stabilized in a Metal-Organic Framework. Chemistry - A European Journal, 2017, 23, 8532-8536.	3.3	14
28	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
29	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
30	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
31	The Structure of Liquid and Amorphous Hafnia. Materials, 2017, 10, 1290.	2.9	31
32	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
33	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
34	Installing Heterobimetallic Cobalt-Aluminum Single Sites on a Metal Organic Framework Support. Chemistry of Materials, 2016, 28, 6753-6762.	6.7	56
35	Stable Metal-Organic Framework-Supported Niobium Catalysts. Inorganic Chemistry, 2016, 55, 11954-11961.	4.0	85
36	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

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37	Large Negative Thermal Expansion and Anomalous Behavior on Compression in Cubic ReO ₃ -Type A ^{II} B ^{IV} F ₆ : CaZrF ₆ and CaHfF ₆ . Chemistry of Materials, 2015, 27, 3912-3918.	6.7	86
38	Solid solubility, phase transitions, thermal expansion, and compressibility in Sc ¹ Al ³ . Journal of Solid State Chemistry, 2015, 222, 96-102.	2.9	54
39	Dramatic softening of the negative thermal expansion material HfW ₂ O ₈ upon heating through its WO ₄ orientational order-disorder phase transition. Journal of Applied Physics, 2014, 115, 053512.	2.5	21
40	Identification of single nucleotide polymorphisms in hematopoietic cell transplant patients affecting early recognition of, and response to, endotoxin. Innate Immunity, 2014, 20, 697-711.	2.4	9
41	History-dependent thermal expansion in NbO ₂ F. Journal of Solid State Chemistry, 2014, 213, 38-42.	2.9	15
42	Evolution of Negative Thermal Expansion and Phase Transitions in Sc _{1-x} Ti _x F ₃ . Chemistry of Materials, 2014, 26, 1936-1940.	6.7	67
43	Phase behavior and thermoelastic properties of SnMo ₂ O ₈ under hydrostatic pressure. Acta Crystallographica Section A: Foundations and Advances, 2014, 70, C156-C156.	0.1	0
44	Orientational order-dependent thermal expansion and compressibility of ZrW ₂ O ₈ and ZrMo ₂ O ₈ . Physical Chemistry Chemical Physics, 2013, 15, 19665.	2.8	22
45	Negative thermal expansion and compressibility of Sc ^{1-x} Y _x F ₃ (x=0.25). Journal of Applied Physics, 2013, 114, .	2.5	68
46	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
47	Adenosine modulates Toll-like receptor function: basic mechanisms and translational opportunities. Expert Review of Anti-Infective Therapy, 2011, 9, 261-269.	4.4	29
48	Bactericidal/Permeability-Increasing Protein (rBPI ₂₁) and Fluoroquinolone Mitigate Radiation-Induced Bone Marrow Aplasia and Death. Science Translational Medicine, 2011, 3, 110ra118.	12.4	38
49	Purinergic signalling in the inner ear—perspectives and progress. Purinergic Signalling, 2010, 6, 151-153.	2.2	7
50	TLR2 Mediates Recognition of Live Staphylococcus epidermidis and Clearance of Bacteremia. PLoS ONE, 2010, 5, e10111.	2.5	62
51	Thermodynamic stability limits of simple monoatomic materials. Journal of Chemical Physics, 2010, 132, 174707.	3.0	20
52	Endotoxin-Directed Innate Immunity in Tracheal Aspirates of Mechanically Ventilated Human Neonates. Pediatric Research, 2009, 66, 191-196.	2.3	13
53	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. Blood, 2008, 112, 800-800.	1.4	1
54	Early Deficiency of Endogenous Proteins Inhibiting LPS-Induced TNF- α Production Correlates with Acute Graft vs Host Disease (aGVHD) after Myeloablative Stem Cell Transplantation (SCT).. Blood, 2007, 110, 1058-1058.	1.4	1