Ryan M L Mcfadden

List of Publications by Year
in descending order

37	254	933447 10	1125743 13
papers	citations	h-index	g-index

37	37	37	320
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Î²-NMR study of the depth, temperature, and molecular-weight dependence of secondary dynamics in polystyrene: Entropyâ€“enthalpy compensation and dynamic gradients near the free surface. Journal of Chemical Physics, 2022, 156, 084903.	3.0	11
2	Repeatable Photoinduced Insulator-to-Metal Transition in Yttrium Oxyhydride Epitaxial Thin Films. Chemistry of Materials, 2022, 34, 3616-3623.	6.7	8
3	Evolution of the metallic state in LaNiO3/LaAlO3 superlattices measured by Li8Î² -detected NMR. Physical Review B, 2021, 104, .	3.2	2
4	Observation of a Charge-Neutral Muon-Polaron Complex in Antiferromagnetic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>Cr</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub><mml:msub><mml:mrow><mml:mi mathvariant="normal">O</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:mrow> Physical Review X, 2020, 10, .	8.9	12
5	Investigation of ionic and anomalous magnetic behavior in CrSe2 using 8Li Î²-NMR. RSC Advances, 2020, 10, 8190-8197.	3.6	3
6	Local electronic and magnetic properties of the doped topological insulators <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>Bi</mml:mi></mml:mrow><mml:mn>2</mml:mn> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>Bi</mml:mi></mml:mrow><mml:mn>2</mml:mn> Physical Review B, 2020, 102, .	3.2	7
7	Local metallic and structural properties of the strongly correlated metal LaNiO3 using 8Li Î²â€“NMR. Physical Review B, 2019, 100, .	3.2	10
8	Bi-Arrhenius Diffusion and Surface Trapping of Li+8 in Rutile TiO2. Physical Review Letters, 2019, 123, 095901.	7.8	2
9	Ionic and electronic properties of the topological insulator <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Bi</mml:mi><mml:mn>2</mml:mn></mml:mrow> investigated via <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î²</mml:mi></mml:math> -detected nuclear magnetic relaxation and resonance of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:m Physical Review B, 2019, 99, .	3.2	10
10	Dynamics of Liquid 1-Ethyl-3-Methylimidazolium Acetate Measured with Implanted-Ion ⁸Li Î²-NMR. Chemistry of Materials, 2019, 31, 9346-9353.	6.7	9
11	Nature of magnetism in thiol-capped gold nanoparticles investigated with Muon spin rotation. Applied Physics Letters, 2018, 112, .	3.3	15
12	Comparison of 8Li and 9Li Spin Relaxation in SrTiO3 and Pt: A Means to Distinguish Magnetic and Electric Quadrupolar Sources of Relaxation. , 2018, , .		1
13	Direct observation of Mg²⁺complexes in ionic liquid solutions by³¹Mg Î²-NMR spectroscopy. Dalton Transactions, 2018, 47, 14431-14435.	3.3	12
14	Beta-Detected NMR of LSAT and YSZ. , 2018, , .		3
15	Beta Detected NMR of LaAlO3. , 2018, , .		4
16	On the Use of 31Mg for Î²-Detected NMR Studies of Solids. , 2018, , .		1
17	Challenge for Detecting the Interface between Electrode and Electrolyte with Î²-NMR. , 2018, , .		1
18	The Spin Relaxation of 8Li+ in Gold at Low Magnetic Field. , 2018, , .		4

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19	Direct measurements of the temperature, depth and processing dependence of phenyl ring dynamics in polystyrene thin films by Î²-detected NMR. Soft Matter, 2018, 14, 7324-7334.	2.7	19
20	Origin of the Multi-Peak Muon Frequency Spectrum in the Heavy Fermion Compound UBe13. , 2018, , .		0
21	Exploring the Dynamics of Glasses Using Beta Detected NMR. , 2018, , .		1
22	Towards 31Mg-Î²-NMR resonance linewidths adequate for applications in magnesium chemistry. Hyperfine Interactions, 2017, 238, 1.	0.5	5
23	Î²-NMR measurements of molecular-scale lithium-ion dynamics in poly(ethylene oxide)-lithium-salt thin films. Journal of Chemical Physics, 2017, 146, 244903.	3.0	5
24	Lithium diffusion in spinel <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Li</mml:mi><mml:mn>4</mml:mn></mml:m mathvariant="normal">O</mml:mi><mml:mn>12</mml:mn></mml:msub></mml:mrow></mml:math> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>LiTi</mml:mi><mml:mn>2</mml:mn></mml: xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>O</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math> studied by Î²-detected NMR. Physical Review B, 2017, 96, .	3.2	19
25	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Li</mml:mi><mml:mprescripts /><mml:none /><mml:mn>8</mml:mn></mml:mmultiscripts></mml:math> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Li</mml:mi><mml:mprescripts /><mml:none /><mml:mn>9</mml:mn></mml:mmultiscripts><mml:mspace width="4pt" /><mml:mi>Î²</mml:mi></mml:math> -NMR and spin-lattice relaxation. Physical Review B, 2017, 96, .	3.2	4
26	Microscopic Dynamics of Li+ in Rutile TiO2 Revealed by 8Li Î²-Detected Nuclear Magnetic Resonance. Chemistry of Materials, 2017, 29, 10187-10197.	6.7	13
27	Communication: Chemisorption of muonium on gold nanoparticles: A sensitive new probe of surface magnetism and reactivity. Journal of Chemical Physics, 2016, 145, 181102.	3.0	12
28	Development of a polarized 31Mg+ beam as a spin-1/2 probe for BNMR. Hyperfine Interactions, 2016, 237, 1.	0.5	6
29	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î²</mml:mi></mml:math>-NMR Investigation of the Depth-Dependent Magnetic Properties of an Antiferromagnetic Surface. Physical Review Letters, 2016, 116, 106103.	7.8	13
30	Spin fluctuations in the exotic metallic state ofSr2RuO4studied withÎ²-NMR. Physical Review B, 2015, 91, .	3.2	8
31	Selective Free Radical Reactions using Supercritical Carbon Dioxide. Journal of the American Chemical Society, 2014, 136, 2200-2203.	13.7	12
32	Î²-NMR of ⁸Li⁺ in rutile TiO₂. Journal of Physics: Conference Series, 2014, 551, 012032.	0.4	0
33	⁸Li⁺Î²-NMR in the Cubic Insulator MgO. Journal of Physics: Conference Series, 2014, 551, 012033.	0.4	11
34	Î²-NMR Study of a buried Mn Î´-doped layer in a silicon host. Journal of Physics: Conference Series, 2014, 551, 012023.	0.4	0
35	Radical kinetics in sub- and supercritical carbon dioxide: thermodynamic rate tuning. Physical Chemistry Chemical Physics, 2012, 14, 8502.	2.8	9
36	Magnesium(II)â€ATP Complexes in 1â€Ethylâ€3â€Methylimidazolium Acetate Solutions Characterized by 31Mg Î²â€Radiationâ€Detected NMR Spectroscopy. Angewandte Chemie - International Edition, 0, , .	13.8	1

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37	Magnesium(II)â€ATP Complexes in 1â€Ethylâ€3â€Methylimidazolium Acetate Solutions Characterized by 31Mg Î²â€Radiationâ€Detected NMR Spectroscopy. Angewandte Chemie, 0, , .	2.0	1