

# Laurent-C Duda

## List of Publications by Year in descending order

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36  
papers

3,591  
citations

304602

22  
h-index

345118

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36  
docs citations

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times ranked

3629  
citing authors

#	ARTICLE	IF	CITATIONS
1	Charge-compensation in 3d-transition-metal-oxide intercalation cathodes through the generation of localized electron holes on oxygen. <i>Nature Chemistry</i> , 2016, 8, 684-691.	6.6	898
2	Superstructure control of first-cycle voltage hysteresis in oxygen-redox cathodes. <i>Nature</i> , 2020, 577, 502-508.	13.7	456
3	Oxygen redox chemistry without excess alkali-metal ions in $\text{Na}_{2/3}[\text{Mg}_{0.28}\text{Mn}_{0.72}]\text{O}_2$ . <i>Nature Chemistry</i> , 2018, 10, 288-295.	6.6	414
4	Anion Redox Chemistry in the Cobalt Free 3d Transition Metal Oxide Intercalation Electrode $\text{Li}[\text{Li}_{0.2}\text{Ni}_{0.2}\text{Mn}_{0.6}]\text{O}_2$ . <i>Journal of the American Chemical Society</i> , 2016, 138, 11211-11218.	6.6	271
5	Induced spin polarization in Cu spacer layers in Co/Cu multilayers. <i>Physical Review Letters</i> , 1994, 72, 1112-1115.	2.9	211
6	Resonant X-Ray Raman Spectra of Cu d-Excitations in $\text{Sr}_2\text{CuO}_2\text{Cl}_2$ . <i>Physical Review Letters</i> , 1998, 80, 5204-5207.	2.9	162
7	Lithium manganese oxyfluoride as a new cathode material exhibiting oxygen redox. <i>Energy and Environmental Science</i> , 2018, 11, 926-932.	15.6	156
8	What Triggers Oxygen Loss in Oxygen Redox Cathode Materials?. <i>Chemistry of Materials</i> , 2019, 31, 3293-3300.	3.2	147
9	Density of states, hybridization, and band-gap evolution in $\text{Al}_x\text{Ga}_{1-x}$ Alloys. <i>Physical Review B</i> , 1998, 58, 1928-1933.	1.1	76
10	Charging Mechanism of $\text{Li}_2\text{MnO}_3$ . <i>Chemistry of Materials</i> , 2020, 32, 3733-3740.	3.2	68
11	Electronic structure of GaN measured using soft-x-ray emission and absorption. <i>Physical Review B</i> , 1996, 54, R17335-R17338.	1.1	64
12	Soft x-ray emission studies of adsorbates. <i>Physical Review Letters</i> , 1992, 69, 812-815.	2.9	59
13	Electronic structure of studied by x-ray photoelectron and x-ray emission spectroscopies. <i>Journal of Physics Condensed Matter</i> , 1998, 10, 4081-4091.	0.7	56
14	Redox Behavior of Vanadium Oxide Nanotubes As Studied by X-ray Photoelectron Spectroscopy and Soft X-ray Absorption Spectroscopy. <i>Chemistry of Materials</i> , 2003, 15, 3227-3232.	3.2	54
15	Oxygen Redox Activity through a Reductive Coupling Mechanism in the P3-Type Nickel-Doped Sodium Manganese Oxide. <i>ACS Applied Energy Materials</i> , 2020, 3, 184-191.	2.5	53
16	Bandlike and excitonic states of oxygen in $\text{CuGeO}_3$ : Observation using polarized resonant soft-x-ray emission spectroscopy. <i>Physical Review B</i> , 2000, 61, 4186-4189.	1.1	51
17	Magnetic dichroism in L <sub>2,3</sub> emission of Fe, Co, and Ni following energy-dependent excitation with circularly polarized x rays. <i>Physical Review B</i> , 1994, 50, 16758-16761.	1.1	47
18	Angular anisotropy of resonant inelastic soft x-ray scattering from liquid water. <i>Physical Review B</i> , 2009, 79, .	1.1	42

#	ARTICLE	IF	CITATIONS
19	Understanding the redox process upon electrochemical cycling of the P2-Na <sub>0.78</sub> Co <sub>1/2</sub> Mn <sub>1/3</sub> Ni <sub>1/6</sub> O <sub>2</sub> electrode material for sodium-ion batteries. <i>Communications Chemistry</i> , 2020, 3, .	2.0	41
20	Local Electronic Structure of Functional Groups in Glycine As Anion, Zwitterion, and Cation in Aqueous Solution. <i>Journal of Physical Chemistry B</i> , 2009, 113, 16002-16006.	1.2	38
21	Combined Experimental and Ab Initio Multireference Configuration Interaction Study of the Resonant Inelastic X-ray Scattering Spectrum of CO <sub>2</sub> . <i>Journal of Physical Chemistry C</i> , 2014, 118, 20163-20175.	1.5	36
22	How Mn/Ni Ordering Controls Electrochemical Performance in High-Voltage Spinel LiNi <sub>0.44</sub> Mn <sub>1.56</sub> O <sub>4</sub> with Fixed Oxygen Content. <i>ACS Applied Energy Materials</i> , 2020, 3, 6001-6013.	2.5	33
23	Enhanced oxygen redox reversibility and capacity retention of titanium-substituted Na <sub>4/7</sub> [ $\hat{\alpha}$ - <sub>1/7</sub> Ti <sub>1/7</sub> Mn <sub>5/7</sub> ] <sub>2</sub> in sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2022, 10, 9941-9953.	5.2	25
24	Importance of Superstructure in Stabilizing Oxygen Redox in P3 $\hat{\alpha}$ -Na <sub>0.67</sub> Li <sub>0.2</sub> Mn <sub>0.8</sub> O <sub>2</sub> . <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	25
25	Electronic Structure of Water Molecules Confined in a Micelle Lattice. <i>Journal of Physical Chemistry B</i> , 2009, 113, 8201-8205.	1.2	20
26	Excess Lithium in Transition Metal Layers of Epitaxially Grown Thin Film Cathodes of Li <sub>2</sub> MnO <sub>3</sub> Leads to Rapid Loss of Covalency during First Battery Cycle. <i>Journal of Physical Chemistry C</i> , 2019, 123, 28519-28526.	1.5	19
27	Understanding charge compensation mechanisms in Na <sub>0.56</sub> Mg <sub>0.04</sub> Ni <sub>0.19</sub> Mn <sub>0.70</sub> O <sub>2</sub> . <i>Communications Chemistry</i> , 2019, 2, .	2.0	15
28	Photoinduced Formation of N <sub>2</sub> Molecules in Ammonium Compounds. <i>Journal of Physical Chemistry A</i> , 2007, 111, 9662-9669.	1.1	11
29	Anionic Redox and Electrochemical Kinetics of the Na <sub>2</sub> Mn <sub>3</sub> O <sub>7</sub> Cathode Material for Sodium-Ion Batteries. <i>Energy &amp; Fuels</i> , 2022, 36, 4015-4025.	2.5	11
30	X-ray absorption spectroscopy and resonant inelastic scattering study of the first lithiation cycle of the Li-ion battery cathode Li <sub>2</sub> xMnSiO <sub>4</sub> . <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 3846.	1.3	9
31	Oxygen redox reactions in Li ion battery electrodes studied by resonant inelastic X-ray scattering. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2017, 221, 79-87.	0.8	7
32	Enhanced Cycling Stability in the Anion Redox Material P3 $\hat{\alpha}$ -Type Zn $\hat{\alpha}$ -Substituted Sodium Manganese Oxide. <i>ChemElectroChem</i> , 2022, 9, .	1.7	6
33	Recent high resolution photoemission studies of electronic structure in quasi-one-dimensional conductors. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2001, 117-118, 517-526.	0.8	3
34	Polarization-dependent resonant inelastic X-ray scattering study at the Cu L and O K -edges of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> . <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2018, 224, 38-44.	0.8	3
35	Electronic Structure of the Organic Conductors $\hat{\rho}$ -ET <sub>2</sub> Cu(SCN) <sub>2</sub> and $\hat{\rho}$ -ET <sub>2</sub> Cu[N(CN) <sub>2</sub> ]Br Studied Using Soft X-ray Absorption and Soft X-ray Emission. <i>Journal of Solid State Chemistry</i> , 1999, 143, 1-8.	1.4	2
36	X-ray yield and selectively excited X-ray emission spectra of atenolol and nadolol. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2005, 144-147, 283-285.	0.8	2