Laurent-C Duda

List of Publications by Year
in descending order

36	3,591	304602	345118
papers	citations	22 h-index	36 g-index

36	36	36	3629
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Enhanced oxygen redox reversibility and capacity retention of titanium-substituted Na_{4/7}[â–¡_{1/7}Ti_{1/7}Mn_{5/7}]O₂ in sodium-ion batteries. Journal of Materials Chemistry A, 2022, 10, 9941-9953.	5.2	25
2	Anionic Redox and Electrochemical Kinetics of the Na₂Mn₃O₇ Cathode Material for Sodium-Ion Batteries. Energy & Fuels, 2022, 36, 4015-4025.	2.5	11
3	Importance of Superstructure in Stabilizing Oxygen Redox in P3â€Na_{0.67}Li_{0.2}Mn_{0.8}O₂. Advanced Energy Materials, 2022, 12, .	10.2	25
4	Enhanced Cycling Stability in the Anion Redox Material P3â€Type Znâ€Substituted Sodium Manganese Oxide. ChemElectroChem, 2022, 9, .	1.7	6
5	Oxygen Redox Activity through a Reductive Coupling Mechanism in the P3-Type Nickel-Doped Sodium Manganese Oxide. ACS Applied Energy Materials, 2020, 3, 184-191.	2.5	53
6	Superstructure control of first-cycle voltage hysteresis in oxygen-redox cathodes. Nature, 2020, 577, 502-508.	13.7	456
7	How Mn/Ni Ordering Controls Electrochemical Performance in High-Voltage Spinel LiNi_{0.44}Mn_{1.56}O₄ with Fixed Oxygen Content. ACS Applied Energy Materials, 2020, 3, 6001-6013.	2.5	33
8	Understanding the redox process upon electrochemical cycling of the P2-Na0.78Co1/2Mn1/3Ni1/6O2 electrode material for sodium-ion batteries. Communications Chemistry, 2020, 3, .	2.0	41
9	Charging Mechanism of Li₂MnO₃. Chemistry of Materials, 2020, 32, 3733-3740.	3.2	68
10	Understanding charge compensation mechanisms in Na0.56Mg0.04Ni0.19Mn0.70O2. Communications Chemistry, 2019, 2, .	2.0	15
11	Excess Lithium in Transition Metal Layers of Epitaxially Grown Thin Film Cathodes of Li₂MnO₃ Leads to Rapid Loss of Covalency during First Battery Cycle. Journal of Physical Chemistry C, 2019, 123, 28519-28526.	1.5	19
12	What Triggers Oxygen Loss in Oxygen Redox Cathode Materials?. Chemistry of Materials, 2019, 31, 3293-3300.	3.2	147
13	Lithium manganese oxyfluoride as a new cathode material exhibiting oxygen redox. Energy and Environmental Science, 2018, 11, 926-932.	15.6	156
14	Oxygen redox chemistry without excess alkali-metal ions in Na2/3[Mg0.28Mn0.72]O2. Nature Chemistry, 2018, 10, 288-295.	6.6	414
15	Polarization-dependent resonant inelastic X-ray scattering study at the Cu L and O K -edges of YBa 2 Cu 3 O 7-x. Journal of Electron Spectroscopy and Related Phenomena, 2018, 224, 38-44.	0.8	3
16	Oxygen redox reactions in Li ion battery electrodes studied by resonant inelastic X-ray scattering. Journal of Electron Spectroscopy and Related Phenomena, 2017, 221, 79-87.	0.8	7
17	Anion Redox Chemistry in the Cobalt Free 3d Transition Metal Oxide Intercalation Electrode Li[Li_{0.2}Ni_{0.2}Mn_{0.6}]O₂. Journal of the American Chemical Society, 2016, 138, 11211-11218.	6.6	271
18	Charge-compensation in 3d-transition-metal-oxide intercalation cathodes through the generation of localized electron holes on oxygen. Nature Chemistry, 2016, 8, 684-691.	6.6	898

#	Article	IF	Citations
19	Combined Experimental and Ab Initio Multireference Configuration Interaction Study of the Resonant Inelastic X-ray Scattering Spectrum of CO₂. Journal of Physical Chemistry C, 2014, 118, 20163-20175.	1.5	36
20	X-ray absorption spectroscopy and resonant inelastic scattering study of the first lithiation cycle of the Li-ion battery cathode Li2â^'xMnSiO4. Physical Chemistry Chemical Physics, 2014, 16, 3846.	1.3	9
21	Angular anisotropy of resonant inelastic soft x-ray scattering from liquid water. Physical Review B, 2009, 79, .	1.1	42
22	Electronic Structure of Water Molecules Confined in a Micelle Lattice. Journal of Physical Chemistry B, 2009, 113, 8201-8205.	1.2	20
23	Local Electronic Structure of Functional Groups in Glycine As Anion, Zwitterion, and Cation in Aqueous Solution. Journal of Physical Chemistry B, 2009, 113, 16002-16006.	1.2	38
24	Photoinduced Formation of N2Molecules in Ammonium Compounds. Journal of Physical Chemistry A, 2007, 111, 9662-9669.	1.1	11
25	X-ray yield and selectively excited X-ray emission spectra of atenolol and nadolol. Journal of Electron Spectroscopy and Related Phenomena, 2005, 144-147, 283-285.	0.8	2
26	Redox Behavior of Vanadium Oxide Nanotubes As Studied by X-ray Photoelectron Spectroscopy and Soft X-ray Absorption Spectroscopy. Chemistry of Materials, 2003, 15, 3227-3232.	3.2	54
27	Recent high resolution photoemission studies of electronic structure in quasi-one-dimensional conductors. Journal of Electron Spectroscopy and Related Phenomena, 2001, 117-118, 517-526.	0.8	3
28	Bandlike and excitonic states of oxygen inCuGeO3:Observation using polarized resonant soft-x-ray emission spectroscopy. Physical Review B, 2000, 61, 4186-4189.	1.1	51
29	Electronic Structure of the Organic ConductorsÎº-ET2Cu(SCN)2andÎº-ET2Cu[N(CN)2]Br Studied Using Soft X-ray Absorption and Soft X-ray Emission. Journal of Solid State Chemistry, 1999, 143, 1-8.	1.4	2
30	Density of states, hybridization, and band-gap evolution inAlxGa1â^'xNalloys. Physical Review B, 1998, 58, 1928-1933.	1.1	76
31	Electronic structure of studied by x-ray photoelectron and x-ray emission spectroscopies. Journal of Physics Condensed Matter, 1998, 10, 4081-4091.	0.7	56
32	Resonant X-Ray Raman Spectra of CuddExcitations inSr2CuO2Cl2. Physical Review Letters, 1998, 80, 5204-5207.	2.9	162
33	Electronic structure of GaN measured using soft-x-ray emission and absorption. Physical Review B, 1996, 54, R17335-R17338.	1.1	64
34	Induced spin polarization in Cu spacer layers in Co/Cu multilayers. Physical Review Letters, 1994, 72, 1112-1115.	2.9	211
35	Magnetic dichroism inL2,3emission of Fe, Co, and Ni following energy-dependent excitation with circularly polarized x rays. Physical Review B, 1994, 50, 16758-16761.	1.1	47
36	Soft x-ray emission studies of adsorbates. Physical Review Letters, 1992, 69, 812-815.	2.9	59