

# Jos Lorenzana

## List of Publications by Citations

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147  
papers

2,937  
citations

32  
h-index

49  
g-index

158  
ext. papers

3,181  
ext. citations

4.2  
avg, IF

5.07  
L-index

#	Paper	IF	Citations
147	Structural analysis of CuGeO <sub>3</sub> : Relation between nuclear structure and magnetic interaction. <i>Physical Review B</i> , <b>1996</b> , 54, 1105-1116	3.3	150
146	Phonon assisted multimagnon optical absorption and long lived two-magnon states in undoped lamellar copper oxides. <i>Physical Review Letters</i> , <b>1995</b> , 74, 1867-1870	7.4	129
145	Magnetic fluctuations of stripes in the high temperature cuprate superconductors. <i>Physical Review Letters</i> , <b>2005</b> , 94, 107006	7.4	95
144	Theory of phonon-assisted multimagnon optical absorption and bimagnon states in quantum antiferromagnets. <i>Physical Review B</i> , <b>1995</b> , 52, 9576-9589	3.3	87
143	Sensitivity of doping states in the copper oxides to electron-lattice coupling. <i>Physical Review Letters</i> , <b>1992</b> , 69, 965-968	7.4	87
142	Metallic mean-field stripes, incommensurability, and chemical potential in cuprates. <i>Physical Review Letters</i> , <b>2002</b> , 89, 136401	7.4	81
141	Competing orders in FeAs layers. <i>Physical Review Letters</i> , <b>2008</b> , 101, 186402	7.4	76
140	Time-dependent Gutzwiller approximation for the Hubbard model. <i>Physical Review Letters</i> , <b>2001</b> , 86, 2605-8	7.4	72
139	Coupling of a high-energy excitation to superconducting quasiparticles in a cuprate from coherent charge fluctuation spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 4539-4544	11.5	71
138	Infrared-active phonons of LaMnO <sub>3</sub> and CaMnO <sub>3</sub> . <i>Physical Review B</i> , <b>1999</b> , 60, 11875-11878	3.3	70
137	Phase separation frustrated by the long-range Coulomb interaction. I. Theory. <i>Physical Review B</i> , <b>2001</b> , 64,	3.3	68
136	Proximity of iron pnictide superconductors to a quantum tricritical point. <i>Nature Communications</i> , <b>2011</b> , 2, 398	17.4	67
135	High-T(c) ferroelectricity emerging from magnetic degeneracy in cupric oxide. <i>Physical Review Letters</i> , <b>2011</b> , 106, 026401	7.4	62
134	Does the Heisenberg Model Describe the Multimagnon Spin Dynamics in Antiferromagnetic CuO Layers?. <i>Physical Review Letters</i> , <b>1999</b> , 83, 5122-5125	7.4	62
133	High-temperature charge density wave correlations in LaBaCuO without spin-charge locking. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 12430-12435	11.5	60
132	Doping dependence of spin excitations in the stripe phase of high-T <sub>c</sub> superconductors. <i>Physical Review B</i> , <b>2006</b> , 73,	3.3	60
131	Sum rules and missing spectral weight in magnetic neutron scattering in the cuprates. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	58

130	Dynamics of metallic stripes in cuprates. <i>Physical Review Letters</i> , <b>2003</b> , 90, 066404	7.4	48
129	New phases in an extended Hubbard model explicitly including atomic polarizabilities. <i>Physical Review Letters</i> , <b>1995</b> , 75, 4658-4661	7.4	48
128	Dynamics of the one-dimensional Heisenberg model and optical absorption of spinons in cuprate antiferromagnetic chains. <i>Physical Review B</i> , <b>1997</b> , 55, R3358-R3361	3.3	47
127	Mesoscopic frustrated phase separation in electronic systems. <i>Europhysics Letters</i> , <b>2002</b> , 57, 704-710	1.6	47
126	Optical conductivity of La <sub>2-x</sub> Sr <sub>x</sub> CuO <sub>4</sub> and soft electronic modes. <i>Physical Review Letters</i> , <b>1993</b> , 70, 861-864	7.4	45
125	Universal scaling of the order-parameter distribution in strongly disordered superconductors. <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	41
124	Stability of metallic stripes in the one-band extended Hubbard model. <i>Physical Review B</i> , <b>2004</b> , 69,	3.3	41
123	Doping states in the two-dimensional three-band Peierls-Hubbard model. <i>Physical Review B</i> , <b>1993</b> , 47, 12059-12088	3.3	40
122	Coulomb-frustrated phase separation phase diagram in systems with short-range negative compressibility. <i>Physical Review Letters</i> , <b>2008</b> , 100, 246402	7.4	39
121	Computation of stripes in cuprates within the LDA+U method. <i>Physical Review B</i> , <b>2004</b> , 70,	3.3	37
120	Magnetism and covalency in the two-dimensional three-band Peierls-Hubbard model. <i>Physical Review B</i> , <b>1993</b> , 47, 8065-8075	3.3	37
119	Superfluid density and phase relaxation in superconductors with strong disorder. <i>Physical Review Letters</i> , <b>2012</b> , 108, 207004	7.4	36
118	Silver route to cuprate analogs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 1495-1500	11.5	34
117	Phase nucleation in curved space. <i>Nature Communications</i> , <b>2015</b> , 6, 6856	17.4	34
116	Time-dependent Gutzwiller theory of magnetic excitations in the Hubbard model. <i>Physical Review B</i> , <b>2004</b> , 69,	3.3	34
115	Optical excitation of phase modes in strongly disordered superconductors. <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	30
114	Gutzwiller magnetic phase diagram of the cuprates. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	29
113	Phase separation frustrated by the long-range Coulomb interaction. II. Applications. <i>Physical Review B</i> , <b>2001</b> , 64,	3.3	29

112	Inhomogeneous Gutzwiller approximation with random phase fluctuations for the Hubbard model. <i>Physical Review B</i> , <b>2003</b> , 67,	3-3	27
111	Frustrated phase separation in two-dimensional charged systems. <i>Physical Review B</i> , <b>2006</b> , 73,	3-3	26
110	Theory of antibound states in partially filled narrow band systems. <i>Physical Review Letters</i> , <b>2008</b> , 100, 016405	7-4	25
109	Polarons in the three-band Peierls-Hubbard model: An exact diagonalization study. <i>Physical Review B</i> , <b>1994</b> , 49, 505-513	3-3	25
108	Formation of Incommensurate Charge Density Waves in Cuprates. <i>Physical Review X</i> , <b>2019</b> , 9,	9-1	24
107	Checkerboard and stripe inhomogeneities in cuprates. <i>Physical Review B</i> , <b>2007</b> , 75,	3-3	21
106	Atomic screening and intersite Coulomb repulsion in strongly correlated systems. <i>Physical Review B</i> , <b>1995</b> , 52, 2484-2495	3-3	21
105	Quantum critical point and superconducting dome in the pressure phase diagram of o-TaS <sub>3</sub> . <i>Physical Review B</i> , <b>2013</b> , 88,	3-3	20
104	Charge instabilities and electron-phonon interaction in the Hubbard-Holstein model. <i>Physical Review B</i> , <b>2009</b> , 79,	3-3	20
103	Magnetization of La <sub>2-x</sub> Sr <sub>x</sub> NiO <sub>4</sub> (0 < x < 0.5): Spin-glass and memory effects. <i>Physical Review B</i> , <b>2006</b> , 73,	3-3	20
102	Viscoelasticity and metastability limit in supercooled liquids. <i>Physical Review Letters</i> , <b>2005</b> , 95, 115702	7-4	20
101	Electronic polymers and soft-matter-like broken symmetries in underdoped cuprates. <i>Nature Communications</i> , <b>2015</b> , 6, 7691	17-4	18
100	Fermi surface dichotomy in systems with fluctuating order. <i>Physical Review B</i> , <b>2009</b> , 79,	3-3	18
99	Dramatic enhancement of spin-spin coupling and quenching of magnetic dimensionality in compressed silver difluoride. <i>Chemical Communications</i> , <b>2018</b> , 54, 10252-10255	5-8	16
98	Linear-response dynamics from the time-dependent Gutzwiller approximation. <i>New Journal of Physics</i> , <b>2013</b> , 15, 053050	2-9	16
97	Real-Time Observation of Cuprates Structural Dynamics by Ultrafast Electron Crystallography. <i>Advances in Condensed Matter Physics</i> , <b>2010</b> , 2010, 1-27	1	16
96	Nematic phase without Heisenberg physics in FeAs planes. <i>Physical Review B</i> , <b>2011</b> , 84,	3-3	16
95	Spin canting as a result of the competition between stripes and spirals in cuprates. <i>Physical Review B</i> , <b>2011</b> , 83,	3-3	16

94	Screening effects in Coulomb-frustrated phase separation. <i>Physical Review B</i> , <b>2007</b> , 75,	3.3	16
93	Stripes in cuprate superconductors: Excitations and dynamic dichotomy. <i>Physica C: Superconductivity and Its Applications</i> , <b>2012</b> , 481, 132-145	1.3	15
92	Gutzwiller magnetic phase diagram of the undoped t <sub>2</sub> g Hubbard model. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	15
91	Thermodynamics of volume-collapse transitions in cerium and related compounds. <i>Acta Materialia</i> , <b>2005</b> , 53, 5183-5188	8.4	15
90	Anomalous scaling and breakdown of conventional density functional theory methods for the description of Mott phenomena and stretched bonds. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	14
89	Exact exchange-correlation potential of an ionic Hubbard model with a free surface. <i>Scientific Reports</i> , <b>2013</b> , 3, 2172	4.9	14
88	Discovery of the soft electronic modes of the trimeron order in magnetite. <i>Nature Physics</i> , <b>2020</b> , 16, 541-545	1.4	13
87	Tuning order-by-disorder multiferroicity in CuO by doping. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	13
86	Probing the electron-phonon interaction in correlated systems with coherent lattice fluctuation spectroscopy. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	13
85	Calculation of incommensurability and spin excitations of diagonal stripes in underdoped lanthanum cuprates. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	13
84	Effect of mesoscopic inhomogeneities on local tunneling density of states in cuprates. <i>Physical Review B</i> , <b>2005</b> , 71,	3.3	13
83	Solving lattice density functionals close to the Mott regime. <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	12
82	Time-dependent Gutzwiller theory of pairing fluctuations in the Hubbard model. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	12
81	Epitaxial engineering of flat silver fluoride cuprate analogs. <i>Physical Review Materials</i> , <b>2020</b> , 4,	3.2	12
80	Investigating pairing interactions with coherent charge fluctuation spectroscopy. <i>European Physical Journal: Special Topics</i> , <b>2013</b> , 222, 1223-1239	2.3	11
79	Raman phonon spectrum of the Dzyaloshinskii-Moriya helimagnet Ba <sub>2</sub> CuGe <sub>2</sub> O <sub>7</sub> . <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	11
78	Polaron formation and local magnetic moments in cuprate superconductors. <i>Physical Review B</i> , <b>1994</b> , 50, 16094-16097	3.3	11
77	Charge-transfer polarons and excitons. <i>Physical Review B</i> , <b>1991</b> , 43, 11474-11477	3.3	11

76	Coherent generation of symmetry-forbidden phonons by light-induced electron-phonon interactions in magnetite. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	10
75	Population inversion and dynamical phase transitions in a driven superconductor. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	10
74	Density-functional theory with adaptive pair density: The Gutzwiller approximation as a density functional. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	9
73	Hidden ferronematic order in underdoped cuprates. <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	9
72	Phonon renormalization from local and transitive electron-lattice couplings in strongly correlated systems. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	9
71	Infrared optical absorption spectra of CuO single crystals: Fermion-phonon band and dimensional crossover of the antiferromagnetic order. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	9
70	Instability due to long-range Coulomb interaction in a liquid of Feynman polarons. <i>Europhysics Letters</i> , <b>2001</b> , 53, 532-538	1.6	9
69	Critical behavior of Young's modulus for two-dimensional randomly holed metallized Mylar. <i>Physical Review B</i> , <b>1987</b> , 36, 3960-3962	3.3	9
68	Clocking the onset of bilayer coherence in a high-T <sub>c</sub> cuprate. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	8
67	Ultrafast cooling and heating scenarios for the laser-induced phase transition in CuO. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	8
66	Dynamic and static correlation functions in the inhomogeneous-Hartree-Fock-state approach with random-phase-approximation fluctuations. <i>Physical Review B</i> , <b>1993</b> , 47, 13156-13163	3.3	8
65	Effects of Polaronic States in the Multiband Hubbard Model. <i>Europhysics Letters</i> , <b>1994</b> , 27, 617-622	1.6	8
64	Mapping the lattice dynamical anomaly of the order parameters across the Verwey transition in magnetite. <i>New Journal of Physics</i> , <b>2017</b> , 19, 103013	2.9	7
63	Dynamic properties of inhomogeneous states in cuprates (Review Article). <i>Low Temperature Physics</i> , <b>2006</b> , 32, 320-339	0.7	7
62	Induced charge in a Fröhlich polaron: Sum rule and spatial extent. <i>Physical Review B</i> , <b>2000</b> , 62, 4426-4430	3.3	7
61	Exact diagonalization results for multimagnon IR absorption in the cuprates. <i>Journal of Superconductivity and Novel Magnetism</i> , <b>1995</b> , 8, 567-570		7
60	LOCALIZED (POLARONIC) CHARGE-TRANSFER EXCITATIONS IN CuO <sub>2</sub> LAYERS. <i>Modern Physics Letters B</i> , <b>1991</b> , 05, 1515-1523	1.6	7
59	Amplitude, density, and current correlations of strongly disordered superconductors. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	6

58	Particle-particle response function as a probe for electronic correlations in the p $\bar{d}$ Hubbard model. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	6
57	Influence of correlations on transitive electron-phonon couplings in cuprate superconductors. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	6
56	Universality classes for Coulomb frustrated phase separation. <i>Physica B: Condensed Matter</i> , <b>2009</b> , 404, 499-502	2.8	6
55	Model of quasiparticles coupled to a frequency-dependent charge-density-wave order parameter in cuprate superconductors. <i>Physical Review Letters</i> , <b>2009</b> , 103, 217005	7.4	6
54	Coarse grained models in Coulomb frustrated phase separation. <i>Journal of Physics Condensed Matter</i> , <b>2008</b> , 20, 434229	1.8	6
53	Effective electron-electron and electron-phonon interactions in the Hubbard-Holstein model. <i>Nuclear Physics B</i> , <b>2006</b> , 744, 277-294	2.8	6
52	Gigantic work function in layered AgF. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 21809-21815	3.6	6
51	Infrared phonon spectrum of the tetragonal helimagnet Ba <sub>2</sub> CuGe <sub>2</sub> O <sub>7</sub> . <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	5
50	Time-Dependent Gutzwiller Approximation: Interplay with Phonons. <i>Journal of Superconductivity and Novel Magnetism</i> , <b>2014</b> , 27, 929-931	1.5	5
49	Quantum Lifshitz Point in the Infinite-Dimensional Hubbard Model. <i>Physical Review Letters</i> , <b>2007</b> , 98,	7.4	5
48	Optical properties of Zhang-Rice states. <i>Journal of Low Temperature Physics</i> , <b>1995</b> , 99, 299-304	1.3	5
47	Doping-dependent competition between superconductivity and polycrystalline charge density waves. <i>SciPost Physics</i> , <b>2020</b> , 8,	6.1	5
46	Vertex functions, spectral weights, and anisotropy in phonon-assisted multimagnon optical absorption. <i>Physical Review B</i> , <b>1998</b> , 58, 13574-13579	3.3	4
45	New Phases in an Extended Hubbard Model Explicitly Including Atomic Probabilities. <i>Physical Review Letters</i> , <b>1996</b> , 76, 2826-2826	7.4	4
44	Excitonic pairing in electron-doped Cu-O layers. <i>Physical Review B</i> , <b>1990</b> , 42, 936-938	3.3	4
43	Fate of dynamical phases of a BCS superconductor beyond the dissipationless regime. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	3
42	Thermal properties of vortices on curved surfaces. <i>Physical Review E</i> , <b>2018</b> , 97, 012117	2.4	3
41	Electronic bands and optical conductivity of the Dzyaloshinsky-Moriya multiferroic Ba <sub>2</sub> CuGe <sub>2</sub> O <sub>7</sub> . <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	3

40	Stability of ferromagnetism within the time-dependent Gutzwiller approximation for the Hubbard model. <i>Physica Status Solidi (B): Basic Research</i> , <b>2011</b> , 248, 339-351	1.3	3
39	Competing phases in the cuprates: Charge vs spin order. <i>Journal of Physics and Chemistry of Solids</i> , <b>2011</b> , 72, 333-336	3.9	3
38	Giovannetti et al. Reply. <i>Physical Review Letters</i> , <b>2011</b> , 107,	7.4	3
37	Gutzwiller + RPA Theory for Magnetic Fluctuations from Stripes in Cuprates. <i>Journal of Superconductivity and Novel Magnetism</i> , <b>2007</b> , 20, 619-622	1.5	3
36	Electronic and structural phase separation in strongly correlated systems. <i>Journal of Physics A</i> , <b>2003</b> , 36, 9165-9185		3
35	Optical absorption of CuO <sub>3</sub> antiferromagnetic chains at finite temperatures. <i>Physical Review B</i> , <b>2000</b> , 62, 1218-1223	3.3	3
34	Mid infrared excitations in cuprates. <i>Physica B: Condensed Matter</i> , <b>1995</b> , 206-207, 675-677	2.8	3
33	Fate of doped carriers in silver fluoride cuprate analogs. <i>Physical Review Materials</i> , <b>2021</b> , 5,	3.2	3
32	Light scattering from the critical modes of the Verwey transition in magnetite. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	3
31	Spin excitations of ferronematic order in underdoped cuprate superconductors. <i>Scientific Reports</i> , <b>2014</b> , 4, 5319	4.9	2
30	Nonlinear dynamics of driven superconductors with dissipation. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	2
29	Dynamical charge and spin density wave scattering in cuprate superconductors. <i>New Journal of Physics</i> , <b>2010</b> , 12, 105010	2.9	2
28	Diagonal stripes in the spin glass phase of cuprates. <i>Physica C: Superconductivity and Its Applications</i> , <b>2010</b> , 470, S245-S246	1.3	2
27	Charge inhomogeneity coexisting with large Fermi surfaces. <i>Physica C: Superconductivity and Its Applications</i> , <b>2007</b> , 460-462, 1176-1177	1.3	2
26	Short range smectic order driving long range nematic order: example of cuprates. <i>Scientific Reports</i> , <b>2016</b> , 6, 19678	4.9	2
25	Gutzwiller charge phase diagram of cuprates, including electron-phonon coupling effects. <i>New Journal of Physics</i> , <b>2015</b> , 17, 023074	2.9	1
24	Energy domain versus time domain precursor fluctuations above the Verwey transition in magnetite. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	1
23	Current Correlations in Strongly Disordered Superconductors. <i>Journal of Superconductivity and Novel Magnetism</i> , <b>2016</b> , 29, 577-580	1.5	1



22	Stripes with Spin Canting in the Three-Band Hubbard Model. <i>Journal of Superconductivity and Novel Magnetism</i> , <b>2013</b> , 26, 49-52	1.5	1
21	Dynamics of Electronic Inhomogeneities in Cuprates. <i>Journal of Superconductivity and Novel Magnetism</i> , <b>2011</b> , 24, 1177-1179	1.5	1
20	Magnetic excitations in the stripe phase of the Hubbard model. <i>Physica C: Superconductivity and Its Applications</i> , <b>2007</b> , 460-462, 1165-1166	1.3	1
19	Curie temperature and frustrated phase separation in manganites. <i>Physica B: Condensed Matter</i> , <b>2002</b> , 320, 56-59	2.8	1
18	Comment on Geometric Phase in Jahn-Teller Crystals <i>Physical Review Letters</i> , <b>1998</b> , 81, 490-490	7.4	1
17	Protected superconductivity at the boundaries of charge-density-wave domains. <i>New Journal of Physics</i> , <b>2020</b> , 22, 073025	2.9	1
16	Nonequilibrium dynamics from BCS to the bosonic limit. <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	1
15	Trimeron-phonon coupling in magnetite. <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	1
14	Multiple-magnon excitations shape the spin spectrum of cuprate parent compounds. <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	1
13	Separation-Controlled Redox Reactions. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 13892-13895.	5.4	0
12	Nanosession: Multiferroics - High Transition Temperatures <b>2013</b> , 347-355		
11	Unified description of charge and spin excitations of stripes in cuprates. <i>Physica C: Superconductivity and Its Applications</i> , <b>2007</b> , 460-462, 271-274	1.3	
10	Dynamics of quantum antiferromagnets from phonon assisted multimagnon infrared absorption. <i>Physica B: Condensed Matter</i> , <b>2006</b> , 384, 181-183	2.8	
9	Elasticity and metastability limit in supercooled liquids: a lattice model. <i>Philosophical Magazine</i> , <b>2007</b> , 87, 441-448	1.6	
8	Maximum size of self-organized inhomogeneities in electronic systems. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2004</b> , 272-276, E1021-E1022	2.8	
7	Dynamical and static properties of stripes in cuprates. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2004</b> , 272-276, 136-137	2.8	
6	The unrestricted Gutzwiller+RPA approach and its application to stripes in cuprates. <i>Physica B: Condensed Matter</i> , <b>2005</b> , 359-361, 548-550	2.8	
5	Two-magnon excitations in cuprates and nickelates. <i>Journal of Superconductivity and Novel Magnetism</i> , <b>1996</b> , 9, 389-392		

- 4 Optical properties of cuprates. *Physica C: Superconductivity and Its Applications*, **1994**, 235-240, 1079-1080
- 3 Phenomenological model of electrons coupled to paramagnons: How to understand photoemission experiments. *Physica C: Superconductivity and Its Applications*, **1994**, 235-240, 2307-2308 1.3
- 2 Magnetic Structure of Electronic Inhomogeneities in Cuprates: Competition between Stripes and Spirals. *Acta Physica Polonica A*, **2012**, 121, 1019-1022 0.6
- 1 Separation-Controlled Redox Reactions. *Angewandte Chemie*, **2021**, 133, 14011-14014 3.6