BIlge Yildiz

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129 papers	6,599 citations	42 h-index	79 g-index
138 ext. papers	7,611 ext. citations	9.9 avg, IF	6.38 L-index

#	Paper	IF	Citations
129	Nanoscale cation motion in TaO(x), HfO(x) and TiO(x) memristive systems. *Nature Nanotechnology*, **2016**, 11, 67-74	28.7	419
128	Cation size mismatch and charge interactions drive dopant segregation at the surfaces of manganite perovskites. *Journal of the American Chemical Society*, **2013**, 135, 7909-25	16.4	358
127	Oxygen diffusion in solid oxide fuel cell cathode and electrolyte materials: mechanistic insights from atomistic simulations. *Energy and Environmental Science*, **2011**, 4, 2774	35.4	300
126	Oxygen ion diffusivity in strained yttria stabilized zirconia: where is the fastest strain?. *Journal of Materials Chemistry*, **2010**, 20, 4809		262
125	Understanding Chemical Expansion in Non-Stoichiometric Oxides: Ceria and Zirconia Case Studies. *Advanced Functional Materials*, **2012**, 22, 1958-1965	15.6	250
124	Improved chemical and electrochemical stability of perovskite oxides with less reducible cations at the surface. *Nature Materials*, **2016**, 15, 1010-6	27	238
123	Chemical Heterogeneities on La0.6Sr0.4CoO3 Thin Films Correlations to Cathode Surface Activity and Stability. *Chemistry of Materials*, **2012**, 24, 1116-1127	9.6	228
122	Glassy nature of water in an ultraconfining disordered material: the case of calcium-silicate-hydrate. *Journal of the American Chemical Society*, **2011**, 133, 2499-510	16.4	182
121	Tensile lattice strain accelerates oxygen surface exchange and diffusion in La1-xSrxCoO3- thin films. *ACS Nano*, **2013**, 7, 3276-86	16.7	179
120	Stretching the energy landscape of oxides Effects on electrocatalysis and diffusion. *MRS Bulletin*, **2014**, 39, 147-156	3.2	171
119	A robust and active hybrid catalyst for facile oxygen reduction in solid oxide fuel cells. *Energy and Environmental Science*, **2017**, 10, 964-971	35.4	145
118	Impact of Sr segregation on the electronic structure and oxygen reduction activity of SrTi1 FexO3 surfaces. *Energy and Environmental Science*, **2012**, 5, 7979	35.4	142
117	Post-test evaluation of oxygen electrodes from solid oxide electrolysis stacks. *International Journal of Hydrogen Energy*, **2009**, 34, 4198-4207	6.7	139
116	Tuning Electronic Structure of Single Layer MoS through Defect and Interface Engineering. *ACS Nano*, **2018**, 12, 2569-2579	16.7	133
115	Surface electronic structure transitions at high temperature on perovskite oxides: the case of strained La0.8Sr0.2CoO3 thin films. *Journal of the American Chemical Society*, **2011**, 133, 17696-704	16.4	127
114	New Insights into the Strain Coupling to Surface Chemistry, Electronic Structure, and Reactivity of La0.7Sr0.3MnO3. *Journal of Physical Chemistry Letters*, **2011**, 2, 801-807	6.4	126
113	Edge dislocation slows down oxide ion diffusion in doped CeO by segregation of charged defects. *Nature Communications*, **2015**, 6, 6294	17.4	114

112	Dislocations in SrTiO3: easy to reduce but not so fast for oxygen transport. *Journal of the American Chemical Society*, **2015**, 137, 4735-48	16.4	112
111	Mechanism for enhanced oxygen reduction kinetics at the (La,Sr)CoO3 (La,Sr)2CoO4+ hetero-interface. *Energy and Environmental Science*, **2012**, 5, 8598	35.4	99
110	Competing strain effects in reactivity of LaCoO3 with oxygen. *Physical Review B*, **2010**, 82,	3.3	99
109	Segregated Chemistry and Structure on (001) and (100) Surfaces of (La1 Srx)2CoO4 Override the Crystal Anisotropy in Oxygen Exchange Kinetics. *Chemistry of Materials*, **2015**, 27, 5436-5450	9.6	94
108	Role of surface oxygen-to-metal ratio on the wettability of rare-earth oxides. *Applied Physics Letters* , **2015**, 106, 061601	3.4	91
107	Interstitialcy diffusion of oxygen in tetragonal La2CoO(4+ *Physical Chemistry Chemical Physics*, **2011**, 13, 2242-9	3.6	90
106	Voltage-Controlled Topotactic Phase Transition in Thin-Film SrCoOx Monitored by In Situ X-ray Diffraction. *Nano Letters*, **2016**, 16, 1186-93	11.5	89
105	First-Principles Assessment of H2S and H2O Reaction Mechanisms and the Subsequent Hydrogen Absorption on the CeO2(111) Surface. *Journal of Physical Chemistry C*, **2012**, 116, 2411-2424	3.8	87
104	Degradation Mechanism in La[sub 0.8]Sr[sub 0.2]CoO[sub 3] as Contact Layer on the Solid Oxide Electrolysis Cell Anode. *Journal of the Electrochemical Society*, **2010**, 157, B441	3.9	81
103	Structure, Chemistry, and Charge Transfer Resistance of the Interface between Li7La3Zr2O12 Electrolyte and LiCoO2 Cathode. *Chemistry of Materials*, **2018**, 30, 6259-6276	9.6	79
102	Mapping strain rate dependence of dislocation-defect interactions by atomistic simulations. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 17756-61	11.5	77
101	Electronic Activation of Cathode Superlattices at Elevated Temperatures Source of Markedly Accelerated Oxygen Reduction Kinetics. *Advanced Energy Materials*, **2013**, 3, 1221-1229	21.8	74
100	Fast oxygen exchange and diffusion kinetics of grain boundaries in Sr-doped LaMnO3 thin films. *Physical Chemistry Chemical Physics*, **2015**, 17, 7659-69	3.6	73
99	Onset mechanism of strain-rate-induced flow stress upturn. *Physical Review Letters*, **2012**, 109, 135503	7.4	72
98	Redox Kinetics Study of Fuel Reduced Ceria for Chemical-Looping Water Splitting. *Journal of Physical Chemistry C*, **2016**, 120, 16271-16289	3.8	62
97	Intrinsic point-defect equilibria in tetragonal ZrO2: Density functional theory analysis with finite-temperature effects. *Physical Review B*, **2012**, 86,	3.3	62
96	Charge localization increases chemical expansion in cerium-based oxides. *Physical Chemistry Chemical Physics*, **2012**, 14, 12070-4	3.6	61
95	Vertically aligned nanocomposite La0.8Sr0.2CoO3/(La0.5Sr0.5)2CoO4 cathodes electronic structure, surface chemistry and oxygen reduction kinetics. *Journal of Materials Chemistry A*, **2015**, 3, 207-219	13	60

94	Dislocations Accelerate Oxygen Ion Diffusion in LaSrMnO Epitaxial Thin Films. *ACS Nano*, **2017**, 11, 11475-11487	16.7	59
93	Enhanced one dimensional mobility of oxygen on strained LaCoO3(001) surface. *Journal of Materials Chemistry*, **2011**, 21, 18983		57
92	Mechanism of void nucleation and growth in bcc Fe: atomistic simulations at experimental time scales. *Physical Review Letters*, **2011**, 106, 125501	7.4	57
91	Scalable Oxygen-Ion Transport Kinetics in Metal-Oxide Films: Impact of Thermally Induced Lattice Compaction in Acceptor Doped Ceria Films. *Advanced Functional Materials*, **2014**, 24, 1562-1574	15.6	55
90	Electron tunneling characteristics on La0.7Sr0.3MnO3 thin-film surfaces at high temperature. *Applied Physics Letters*, **2009**, 95, 092106	3.4	55
89	Tunable Oxygen Diffusion and Electronic Conduction in SrTiO3 by Dislocation-Induced Space Charge Fields. *Advanced Functional Materials*, **2017**, 27, 1700243	15.6	47
88	Accelerated oxygen exchange kinetics on Nd2NiO(4+)thin films with tensile strain along c-axis. *ACS Nano*, **2015**, 9, 1613-21	16.7	46
87	Unfaulting mechanism of trapped self-interstitial atom clusters in bcc Fe: A kinetic study based on the potential energy landscape. *Physical Review B*, **2010**, 81,	3.3	41
86	High Surface Reactivity and Water Adsorption on NiFe2O4 (111) Surfaces. *Journal of Physical Chemistry C*, **2013**, 117, 5678-5683	3.8	40
85	Influence of surface atomic structure demonstrated on oxygen incorporation mechanism at a model perovskite oxide. *Nature Communications*, **2018**, 9, 3710	17.4	40
84	Bi-directional tuning of thermal transport in SrCoO with electrochemically induced phase transitions. *Nature Materials*, **2020**, 19, 655-662	27	38
83	Protonic solid-state electrochemical synapse for physical neural networks. *Nature Communications*, **2020**, 11, 3134	17.4	37
82	Modified Oxygen Defect Chemistry at Transition Metal Oxide Heterostructures Probed by Hard X-ray Photoelectron Spectroscopy and X-ray Diffraction. *Chemistry of Materials*, **2018**, 30, 3359-3371	9.6	37
81	Strongly correlated perovskite lithium ion shuttles. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 9672-9677	11.5	36
80	Origin of fast oxide ion diffusion along grain boundaries in Sr-doped LaMnO. *Physical Chemistry Chemical Physics*, **2018**, 20, 19142-19150	3.6	32
79	Polarizing Oxygen Vacancies in Insulating Metal Oxides under a High Electric Field. *Physical Review Letters*, **2017**, 119, 126002	7.4	32
78	Non-equilibrium oxidation states of zirconium during early stages of metal oxidation. *Applied Physics Letters*, **2015**, 106, 101603	3.4	30
77	Electronic Structure Evolution of SrCoOx during Electrochemically Driven Phase Transition Probed by in Situ X-ray Spectroscopy. *Journal of Physical Chemistry C*, **2016**, 120, 24148-24157	3.8	30

76	Electrochemical Polarization Dependence of the Elastic and Electrostatic Driving Forces to Aliovalent Dopant Segregation on LaMnO. *Journal of the American Chemical Society*, **2020**, 142, 3548-3563	16.4	29
75	Hydrogen defects in tetragonal ZrO2 studied using density functional theory. *Physical Chemistry Chemical Physics*, **2014**, 16, 1354-65	3.6	29
74	Electronic states of intrinsic surface and bulk vacancies in FeS2. *Journal of Physics Condensed Matter* , **2013**, 25, 045004	1.8	29
73	Doping in the Valley of Hydrogen Solubility: A Route to Designing Hydrogen-Resistant Zirconium Alloys. *Physical Review Applied*, **2016**, 5,	4.3	26
72	The interplay and impact of strain and defect association on the conductivity of rare-earth substituted ceria. *Acta Materialia*, **2019**, 166, 447-458	8.4	25
71	Electrochemically Triggered Metal□nsulator Transition between VO2 and V2O5. *Advanced Functional Materials*, **2018**, 28, 1803024	15.6	25
70	Reducibility of Co at the La0.8Sr0.2CoO3/(La0.5Sr0.5)2CoO4 hetero-interface at elevated temperatures. *Journal of Materials Chemistry A*, **2014**, 2, 14690	13	24
69	Colossal oxygen vacancy formation at a fluorite-bixbyite interface. *Nature Communications*, **2020**, 11, 1371	17.4	23
68	Predicting self-diffusion in metal oxides from first principles: The case of oxygen in tetragonal ZrO2. *Physical Review B*, **2014**, 89,	3.3	23
67	Enhanced intermediate-temperature CO splitting using nonstoichiometric ceria and ceria-zirconia. *Physical Chemistry Chemical Physics*, **2017**, 19, 25774-25785	3.6	23
66	In situ catalyst exsolution on perovskite oxides for the production of CO and synthesis gas in ceramic membrane reactors. *Sustainable Energy and Fuels*, **2019**, 3, 2347-2355	5.8	22
65	Predicting point defect equilibria across oxide hetero-interfaces: model system of ZrO/CrO. *Physical Chemistry Chemical Physics*, **2017**, 19, 3869-3883	3.6	21
64	Adsorption of CO2 and Facile Carbonate Formation on BaZrO3 Surfaces. *Journal of Physical Chemistry C*, **2018**, 122, 307-314	3.8	21
63	Self-Arranged Misfit Dislocation Network Formation upon Strain Release in La0.7Sr0.3MnO3/LaAlO3(100) Epitaxial Films under Compressive Strain. *ACS Applied Materials & Interfaces*, **2016**, 8, 16823-32	9.5	21
62	Effect of crystal orientation on the segregation of aliovalent dopants at the surface of La0.6Sr0.4CoO3. *Journal of Materials Chemistry A*, **2018**, 6, 14136-14145	13	20
61	Effect of Niobium on the Defect Chemistry and Oxidation Kinetics of Tetragonal ZrO2. *Journal of Physical Chemistry C*, **2014**, 118, 20122-20131	3.8	20
60	Improved electrochemical stability at the surface of La(0.8)Sr(0.2)CoO3 achieved by surface chemical modification. *Faraday Discussions*, **2015**, 182, 257-69	3.6	20
59	Adjusting island density and morphology of the SrTiO3(110)-(4 □1) surface: Pulsed laser deposition combined with scanning tunneling microscopy. *Surface Science*, **2016**, 651, 76-83	1.8	19

58	The role of ceramic and glass science research in meeting societal challenges: Report from an NSF-sponsored workshop. *Journal of the American Ceramic Society*, **2017**, 100, 1777-1803	3.8	17
57	Acidity of surface-infiltrated binary oxides as a sensitive descriptor of oxygen exchange kinetics in mixed conducting oxides. *Nature Catalysis*, **2020**, 3, 913-920	36.5	17
56	Autonomous basin climbing method with sampling of multiple transition pathways: application to anisotropic diffusion of point defects in hcp Zr. *Journal of Physics Condensed Matter*, **2014**, 26, 365402	1.8	16
55	Voltage control of ferrimagnetic order and voltage-assisted writing of ferrimagnetic spin textures. *Nature Nanotechnology*, **2021**, 16, 981-988	28.7	16
54	Diffusion-limited kinetics of the antiferromagnetic to ferrimagnetic □transition in Fe1⊠S. *Applied Physics Letters*, **2015**, 106, 092402	3.4	15
53	Interstitial emission at grain boundary in nanolayered alpha-Fe. *Acta Materialia*, **2016**, 105, 147-154	8.4	15
52	Thermal conductivity control by oxygen defect concentration modification in reducible oxides: The case of Pr0.1Ce0.9O2□thin films. *Applied Physics Letters*, **2014**, 104, 061911	3.4	15
51	Oxygen self-diffusion mechanisms in monoclinic ZrO2 revealed and quantified by density functional theory, random walk analysis, and kinetic Monte Carlo calculations. *Physical Review B*, **2018**, 97,	3.3	14
50	Surface Defect Chemistry and Electronic Structure of Pr0.1Ce0.9O2□Revealed in Operando. *Chemistry of Materials*, **2018**, 30, 2600-2606	9.6	14
49	Polar or not polar? The interplay between reconstruction, Sr enrichment, and reduction at the La0.75Sr0.25MnO3 (001) surface. *Physical Review Materials*, **2020**, 4,	3.2	14
48	Magnetic diffusion anomaly at the Néel temperature of pyrrhotite, Fe(1-x)S. *Physical Chemistry Chemical Physics*, **2015**, 17, 11036-41	3.6	13
47	Threshold catalytic onset of carbon formation on CeO2 during CO2 electrolysis: mechanism and inhibition. *Journal of Materials Chemistry A*, **2019**, 7, 15233-15243	13	12
46	Doping □Al2O3 to reduce its hydrogen permeability: Thermodynamic assessment of hydrogen defects and solubility from first principles. *Acta Materialia*, **2019**, 169, 172-183	8.4	12
45	Oxygen Exchange in Dual-Phase LaSrMnO-CeO Composites for Solar Thermochemical Fuel Production. *ACS Applied Materials & Interfaces*, **2020**, 12, 32622-32632	9.5	12
44	Thermomechanical stabilization of electron small polarons in SrTiO3 assessed by the quasiharmonic approximation. *Physical Review B*, **2017**, 95,	3.3	12
43	Hydrogen Production Using High-Temperature Steam Electrolysis Supported by Advanced Gas Reactors with Supercritical CO2 Cycles. *Nuclear Technology*, **2006**, 155, 1-21	1.4	12
42	Analogy between glass rheology and crystal plasticity: yielding at high strain rate. *Soft Matter*, **2013**, 9, 9511-4	3.6	11
41	Direct probing of nanodimensioned oxide multilayers with the aid of focused ion beam milling. *Advanced Materials*, **2011**, 23, 4543-8	24	11

40	Nuclear hydrogen: An assessment of product flexibility and market viability. *Energy Policy*, **2008**, 36, 3961-3973	7.3	11
39	Highly Durable C2 Hydrocarbon Production via the Oxidative Coupling of Methane Using a BaFe0.9Zr0.1O3□Mixed Ionic and Electronic Conducting Membrane and La2O3 Catalyst. *ACS Catalysis*, **2021**, 11, 3638-3661	13.1	11
38	Integrated Computational Modeling of Water Side Corrosion in Zirconium Metal Clad Under Nominal LWR Operating Conditions. *Jom*, **2016**, 68, 2900-2911	2.1	11
37	Pushing the detection of cation nonstoichiometry to the limit. *Physical Review Materials*, **2019**, 3,	3.2	10
36	Hydrogen weakens interlayer bonding in layered transition metal sulfide Fe1+xS. *Journal of Materials Chemistry A*, **2017**, 5, 5030-5035	13	8
35	Hydrogen tunes magnetic anisotropy by affecting local hybridization at the interface of a ferromagnet with nonmagnetic metals. *Physical Review Materials*, **2020**, 4,	3.2	8
34	An antisite defect mechanism for room temperature ferroelectricity in orthoferrites. *Nature Communications*, **2021**, 12, 4298	17.4	8
33	Thermally Driven Interfacial Degradation between Li7La3Zr2O12 Electrolyte and LiNi0.6Mn0.2Co0.2O2 Cathode. *Chemistry of Materials*, **2020**, 32, 9531-9541	9.6	7
32	Charge Transfer Across Oxide Interfaces Probed by in Situ X-ray Photoelectron and Absorption Spectroscopy Techniques. *Journal of Physical Chemistry C*, **2018**, 122, 4841-4848	3.8	7
31	First-Principles Assessment of the Reactions of Boric Acid on NiO(001) and ZrO2(1 11) Surfaces. *Journal of Physical Chemistry C*, **2012**, 116, 10113-10119	3.8	7
30	Solubility Limit of Cu and Factors Governing the Reactivity of Cu□CeO2 Assessed from First-Principles Defect Chemistry and Thermodynamics. *Journal of Physical Chemistry C*, **2019**, 123, 399-409	3.8	7
29	Interplay between H2O and CO2 coadsorption and space-charge on Y-doped BaZrO3 surfaces. *Journal of Materials Chemistry A*, **2018**, 6, 24823-24830	13	7
28	Accessible switching of electronic defect type in SrTiO3 via biaxial strain. *Physical Review Materials*, **2018**, 2,	3.2	6
27	Exsolution Synthesis of Nanocomposite Perovskites with Tunable Electrical and Magnetic Properties. *Advanced Functional Materials*,2108005	15.6	6
26	Spinel/perovskite cobaltite nanocomposites synthesized by combinatorial pulsed laser deposition. *CrystEngComm*, **2016**, 18, 7745-7752	3.3	6
25	Interplay of Grain Size Dependent Electronic and Ionic Conductivity in Electrochemical Polarization Studies on Sr-Doped LaMnO3(LSM) Thin Film Cathodes. *Journal of the Electrochemical Society*, **2018**, 165, F702-F709	3.9	5
24	Effect of annealing ambient on anisotropic retraction of film edges during solid-state dewetting of thin single crystal films. *Journal of Applied Physics*, **2016**, 120, 075306	2.5	5
23	Tailoring Nonstoichiometry and Mixed Ionic Electronic Conductivity in PrCeO/SrTiO Heterostructures. *ACS Applied Materials & Interfaces*, **2019**, 11, 34841-34853	9.5	4

22	Chemical, Electronic and Nanostructure Dynamics on Sr(Ti1-xFex)O3 Thin-Film Surfaces at High Temperatures. *ECS Transactions*, **2011**, 35, 2409-2416	1	4
21	In situ Synchrotron X-ray Studies of Dense Thin-Film Strontium-Doped Lanthanum Manganite Solid Oxide Fuel Cell Cathodes. *Materials Research Society Symposia Proceedings*, **2008**, 1126, 1		4
20	Hf Deposition Stabilizes the Surface Chemistry of Perovskite Manganite Oxide. *Journal of Physical Chemistry C*, **2021**, 125, 3346-3354	3.8	4
19	CMOS-Compatible Protonic Programmable Resistor Based on Phosphosilicate Glass Electrolyte for Analog Deep Learning. *Nano Letters*, **2021**, 21, 6111-6116	11.5	4
18	Role of Adsorbate Coverage on the Oxygen Dissociation Rate on Sr-Doped LaMnO3 Surfaces in the Presence of H2O and CO2. *Chemistry of Materials*, **2020**, 32, 5483-5492	9.6	3
17	Self-interstitial clusters in radiation damage accumulation: coupled molecular dynamics and metadynamics simulations. *European Physical Journal B*, **2013**, 86, 1	1.2	3
16	Nanoindentation Induced Deformation Near Grain Boundaries of Corrosion Resistant Nickel Alloys. *Materials Research Society Symposia Proceedings*, **2011**, 1297, 187		3
15	Avoiding CO 2 Improves Thermal Stability at the Interface of Li 7 La 3 Zr 2 O 12 Electrolyte with Layered Oxide Cathodes. *Advanced Energy Materials*, **2022**, 12, 2102741	21.8	3
14	Quantifying the origin of inter-adsorbate interactions on reactive surfaces for catalyst screening and design. *Physical Chemistry Chemical Physics*, **2015**, 17, 22227-34	3.6	2
13	The role of doping and microstructure on hydrogen solubility in monoclinic ZrO2: Experimental validations of simulated defect chemistry. *Acta Materialia*, **2020**, 195, 172-183	8.4	2
12	Precipitation of dopants on acceptor-doped LaMnO revealed by defect chemistry from first principles. *Journal of Chemical Physics*, **2021**, 154, 064702	3.9	2
11	Synthesizing Functional Ceramic Powders for Solid Oxide Cells in Minutes through Thermal Shock. *ACS Energy Letters*, **2022**, 7, 1223-1229	20.1	2
10	In situ X-ray Studies of (La,Sr)MnO3_δ(La,Sr)CoO3_δand La0.6Sr0.4Co0.2Fe0.8O3-δThin Film SOFC Cathodes Grown by Pulse Laser Deposition. *Materials Research Society Symposia Proceedings*, **2013**, 1495, 1		1
9	Stabilizing single atoms and a lower oxidation state of Cu by a [110]{100} edge dislocation in CuCeO2. *Physical Review Materials*, **2019**, 3,	3.2	1
8	METALLIC INTERFACES IN HARSH CHEMO-MECHANICAL ENVIRONMENTS. *Nuclear Engineering and Technology*, **2009**, 41, 21-38	2.6	1
7	Structure, Kinetics, and Thermodynamics of Water and Its Ions at the Interface with Monoclinic ZrO2 Resolved via Ab Initio Molecular Dynamics. *Journal of Physical Chemistry C*, **2021**, 125, 15233-15242	3.8	1
6	First-principles calculation of oxygen vacancy effects on the magnetic properties of the perovskite SrNiO3. *Physical Review Materials*, **2021**, 5,	3.2	1
5	Complex Oxides under Simulated Electric Field: Determinants of Defect Polarization in ABO Perovskites. *Advanced Science*, **2021**, e2104476	13.6	1

4	Antisite Defects Stabilized by Antiphase Boundaries in YFeO3 Thin Films. *Advanced Functional Materials*,2107017	15.6	0
3	Fuel Cells: Electronic Activation of Cathode Superlattices at Elevated Temperatures Is Source of Markedly Accelerated Oxygen Reduction Kinetics (Adv. Energy Mater. 9/2013). *Advanced Energy Materials*, **2013**, 3, 1110-1110	21.8	
2	Nanosession: New Technologies for Scanning Probes143-153		
1	Multi-Foulant-Resistant Material Design by Matching Coating-Fluid Optical Properties. *Langmuir*, **2020**, 36, 4776-4784	4	