

# Edhem Kh Kurumchin

## List of Publications by Year in descending order

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34  
papers

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citations

471061

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docs citations

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Oxygen isotope exchange in $\text{La}_{2-x}\text{NiO}_{4\pm\delta}$ . <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 9102-9111.	1.3	66
2	Oxygen isotope exchange and diffusion in $\text{LnBaCo}_2\text{O}_{6\pm\delta}$ (Ln = Pr, Sm, Gd) with double perovskite structure. <i>Solid State Ionics</i> , 2017, 304, 96-106.	1.3	41
3	Oxygen tracer diffusion and surface exchange kinetics in $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{Co}_{0.8}\text{Fe}_{0.2}\text{O}_{3\pm\delta}$ . <i>Solid State Ionics</i> , 2014, 268, 102-109.	1.3	36
4	Interphase exchange and diffusion of oxygen in lanthanum-strontium cobaltites doped with iron. <i>Russian Journal of Physical Chemistry A</i> , 2010, 84, 1039-1044.	0.1	26
5	The types of surface exchange and diffusion of oxygen in $\text{La}_{0.7}\text{Sr}_{0.3}\text{CoO}_{3\pm\delta}$ . <i>Solid State Ionics</i> , 1998, 112, 117-122.	1.3	25
6	Isotopic exchange between hydrogen from the gas phase and proton-conducting oxides: Theory and experiment. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 13373-13382.	3.8	24
7	Exchange kinetics and diffusion of oxygen in systems based on lanthanum gallate. <i>Russian Journal of Electrochemistry</i> , 2010, 46, 205-211.	0.3	22
8	Effect of oxygen nonstoichiometry on kinetics of oxygen exchange and diffusion in lanthanum-strontium cobaltites. <i>Russian Journal of Electrochemistry</i> , 2010, 46, 789-797.	0.3	22
9	Effect of oxygen nonstoichiometry on kinetics of oxygen exchange and diffusion in lanthanum-strontium manganites. <i>Russian Journal of Electrochemistry</i> , 2013, 49, 963-974.	0.3	22
10	Degradation kinetics of LSM-YSZ cathode materials for SOFC. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 951-959.	3.8	20
11	Influence of strontium content on the oxygen surface exchange kinetics and oxygen diffusion in $\text{La}_{1-x}\text{Sr}_x\text{CoO}_{3\pm\delta}$ oxides. <i>Solid State Ionics</i> , 2019, 341, 115052.	1.3	20
12	Oxygen isotope exchange in doped calcium and barium zirconates. <i>Solid State Ionics</i> , 2016, 290, 108-115.	1.3	19
13	Phase equilibriums, oxygen exchange kinetics and diffusion in oxides $\text{CaZr}_{1-x}\text{Sc}_x\text{O}_{3\pm\delta}$ . <i>Russian Journal of Electrochemistry</i> , 2012, 48, 879-886.	0.3	18
14	Particle Coarsening Influence on Oxygen Reduction in LSM-YSZ Composite Materials. <i>Fuel Cells</i> , 2015, 15, 131-139.	1.5	18
15	Effect of AO Segregation on Catalytical Activity of $\text{La}_{0.7}\text{A}_{0.3}\text{MnO}_{3\pm\delta}$ (A = Ca, Sr, Ba) Regarding Oxygen Reduction Reaction. <i>Catalysis Letters</i> , 2018, 148, 2839-2847.	1.4	18
16	Effect of defect structure of lanthanum manganite on oxygen exchange kinetics and diffusion. <i>Russian Journal of Electrochemistry</i> , 2011, 47, 1250-1256.	0.3	17
17	Oxygen nonstoichiometry, defect structure and oxygen diffusion in the double perovskite $\text{GdBaCo}_2\text{O}_{6\pm\delta}$ . <i>Dalton Transactions</i> , 2014, 43, 15937-15943.	1.6	17
18	Interaction of $\text{O}_2$ with LSM-YSZ Composite Materials and Oxygen Spillover Effect. <i>ACS Catalysis</i> , 2021, 11, 4247-4262.	5.5	17

#	ARTICLE	IF	CITATIONS
19	Isotope exchange studies of electrochemical systems with solid oxide electrolytes. <i>Ionics</i> , 1998, 4, 390-394.	1.2	13
20	High-Temperature Proton Conductors Based on Strontium and Barium Cerates: The Interphase Exchange and Diffusion of Oxygen. <i>Russian Journal of Electrochemistry</i> , 2004, 40, 410-413.	0.3	12
21	Kinetics of interaction of gas phase oxygen with cerium-gadolinium oxide. <i>Russian Journal of Electrochemistry</i> , 2012, 48, 871-878.	0.3	12
22	Oxygen surface exchange and diffusion in $\text{Pr}_{1.75}\text{Sr}_{0.25}\text{Ni}_{0.75}\text{Co}_{0.25}\text{O}_{4-\delta}$ . <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 4779-4790.	1.3	10
23	Oxygen isotope exchange in the LSM-YSZ composite under the conditions of long-term tests. <i>Russian Journal of Electrochemistry</i> , 2014, 50, 680-689.	0.3	9
24	Correlation between structure, surface defect chemistry and $^{18}\text{O}/^{16}\text{O}$ exchange for $\text{La}_{2-x}\text{Mo}_{2-x}\text{O}_{9-x}$ and $\text{La}_{2-x}(\text{MoO}_4)_x\text{O}_3$ . <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 12739-12748.	1.3	7
25	Effect of acceptor substitution in perovskites $\text{La}_{1-x}\text{A}_x\text{MnO}_3$ ( $A = \text{Ca}, \text{Sr}, \text{Ba}$ ) on the kinetics of interaction of gas-phase oxygen. <i>Russian Journal of Electrochemistry</i> , 2016, 52, 717-722.	0.3	6
26	Effect of the steel substrate on the composition of gases in enameling. <i>Glass and Ceramics (English)</i> 8.2 / 5	0.2	5
27	Oxygen surface exchange kinetics of $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{Co}_{0.8}\text{Fe}_{0.2}\text{O}_{3-\delta}$ . <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 10158-10169.	1.3	5
28	High-Temperature Proton Conductors Based on Strontium and Barium Cerates: The Content, Interphase Exchange, and Diffusion of Hydrogen. <i>Russian Journal of Electrochemistry</i> , 2004, 40, 404-409.	0.3	3
29	Kinetics of gas-phase oxygen exchange with $\text{La}_{0.6}\text{Sr}_{0.4}\text{MeO}_3$ ( $\text{Me} = \text{Mn}, \text{Co}$ ). <i>Russian Journal of Electrochemistry</i> , 2012, 48, 961-968.	0.3	3
30	Oxygen isotope exchange and electrical conductivity of $\text{CaZr}_{1-x}\text{Sc}_x\text{O}_3$ . <i>Journal of Solid State Electrochemistry</i> , 2016, 20, 1497-1500.	1.2	2
31	Oxygen isotope exchange between the gas-phase and the electrochemical cell $\text{O}_2, \text{Pt}   \text{YSZ}   \text{Pt}, \text{O}_2$ under conditions of applied potential difference. <i>Russian Journal of Electrochemistry</i> , 2017, 53, 838-845.	0.3	2
32	Title is missing!. <i>Russian Journal of Electrochemistry</i> , 2001, 37, 304-307.	0.3	1
33	Conductivity, oxygen interfacial exchange and diffusion in oxides based on lanthanum gallate. <i>Russian Journal of Electrochemistry</i> , 2010, 46, 774-779.	0.3	1
34	Sergei Vasil'evich Karpachev (In commemoration of his centenary). <i>Russian Journal of Electrochemistry</i> , 2006, 42, 415-416.	0.3	0