

# Stanislav A Chizhik

## List of Publications by Year in descending order

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Version: 2024-02-01

19  
papers

1,032  
citations

1040056

9  
h-index

839539

18  
g-index

20  
all docs

20  
docs citations

20  
times ranked

1335  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanically Responsive Molecular Crystals. <i>Chemical Reviews</i> , 2015, 115, 12440-12490.	47.7	678
2	Directed Motility of Hygroresponsive Biomimetic Actuators. <i>Advanced Functional Materials</i> , 2016, 26, 1040-1053.	14.9	104
3	Quantification of photoinduced bending of dynamic molecular crystals: from macroscopic strain to kinetic constants and activation energies. <i>Chemical Science</i> , 2018, 9, 2319-2335.	7.4	73
4	Mechanically Responsive Crystals: Analysis of Macroscopic Strain Reveals "Hidden" Processes. <i>Journal of Physical Chemistry A</i> , 2020, 124, 300-310.	2.5	29
5	Oxygen Release from Grossly Nonstoichiometric $\text{SrCo}_{0.8}\text{Fe}_{0.2}\text{O}_{3-\delta}$ Perovskite in Isostoichiometric Mode. <i>Chemistry of Materials</i> , 2014, 26, 2113-2120.	6.7	21
6	Structural aspects of displacive transformations: what can optical microscopy contribute? Dehydration of $\text{Sm}_2(\text{C}_2\text{O}_4)_3 \cdot 10\text{H}_2\text{O}$ as a case study. <i>IUCr</i> , 2017, 4, 588-597.	2.2	21
7	Novel oxygen partial pressure relaxation technique for study of oxygen exchange in nonstoichiometric oxides. The model of relaxation kinetics. <i>Solid State Ionics</i> , 2018, 320, 297-304.	2.7	17
8	The effect of thermal expansion on photoisomerisation in the crystals of $[\text{Co}(\text{NH}_3)_5\text{NO}_2]\text{Cl}(\text{NO}_3)$ : different strain origins "different outcomes". <i>CrystEngComm</i> , 2016, 18, 7276-7283.	2.6	14
9	Nonstoichiometric oxides as a continuous homologous series: linear free-energy relationship in oxygen exchange. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 18447-18454.	2.8	13
10	Spatially-ordered nano-sized crystallites formed by dehydration-induced single crystal cracking of $\text{CuCl}_2 \cdot 2\text{H}_2\text{O}$ . <i>CrystEngComm</i> , 2018, 20, 6005-6017.	2.6	9
11	Relating Excited States to the Dynamics of Macroscopic Strain in Photoresponsive Crystals. <i>Inorganic Chemistry</i> , 2022, 61, 3573-3585.	4.0	9
12	A study of the effect of structural transformations in the course of $\text{Ce}_2(\text{C}_2\text{O}_4)_3 \cdot 10\text{H}_2\text{O}$ thermal decomposition on the morphology of $\text{CeO}_2$ obtained. <i>Materials Today: Proceedings</i> , 2017, 4, 11495-11499.	1.8	8
13	Brønsted-Evans-Polanyi relationship in oxygen exchange of non-stoichiometric oxides with gas phase. <i>Chemical Engineering Journal</i> , 2019, 371, 319-326.	12.7	8
14	The Brønsted-Evans-Polanyi relationship in oxygen exchange of fuel cell cathode material $\text{SrCo}_{0.9}\text{Ta}_{0.1}\text{O}_{3-\delta}$ with the gas phase. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 1072-1081.	2.8	7
15	The study of structural and morphological changes during thermal decomposition of $\text{Y}_2(\text{C}_2\text{O}_4)_3 \cdot 10\text{H}_2\text{O}$ . <i>Materials Today: Proceedings</i> , 2017, 4, 11470-11475.	1.8	6
16	Kinetics of solid state reactions with a positive feedback between the reaction and fracture. <i>Russian Chemical Bulletin</i> , 1998, 47, 604-609.	1.5	5
17	Kinetics of solid state reactions with a positive feedback between the reaction and fracture. <i>Russian Chemical Bulletin</i> , 1998, 47, 610-614.	1.5	4
18	Diffusional-kinetic model of the joint dissolution of interacting poorly soluble substances. <i>Russian Journal of Physical Chemistry A</i> , 2007, 81, 632-637.	0.6	1

#	ARTICLE	IF	CITATIONS
19	Determination of the material characteristics of the light-driven actuators from the kinetics of photo-mechanical response. <i>Materials Today: Proceedings</i> , 2019, 12, 35-38.	1.8	0