

# LukÅ;Å; Grajciar

## List of Publications by Year in descending order

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33  
papers

1,877  
citations

331670

21  
h-index

434195

31  
g-index

35  
all docs

35  
docs citations

35  
times ranked

2493  
citing authors

#	ARTICLE	IF	CITATIONS
1	Doping isolated one-dimensional antiferromagnetic semiconductor vanadium tetrasulfide (VS <sub>4</sub> ) nanowires with carriers induces half-metallicity. <i>Journal of Materials Chemistry C</i> , 2021, 9, 3122-3128.	5.5	8
2	Intrinsic valley polarization in 2D magnetic MXenes: surface engineering induced spin-valley coupling. <i>Journal of Materials Chemistry C</i> , 2021, 9, 11132-11141.	5.5	29
3	The Role of Water Loading and Germanium Content in Germanosilicate Hydrolysis. <i>Journal of Physical Chemistry C</i> , 2021, 125, 23744-23757.	3.1	12
4	Mechanism of Zeolite Hydrolysis under Basic Conditions. <i>Chemistry of Materials</i> , 2021, 33, 9202-9212.	6.7	9
5	Identification of the most active sites for tetrahydropyranlation in zeolites: MFI as a test case. <i>Catalysis Today</i> , 2020, 345, 165-174.	4.4	4
6	Zeolite (In)Stability under Aqueous or Steaming Conditions. <i>Advanced Materials</i> , 2020, 32, e2003264.	21.0	75
7	Origin of the Unusual Stability of Zeolite-Encapsulated Sub-Nanometer Platinum. <i>ACS Catalysis</i> , 2020, 10, 11057-11068.	11.2	20
8	Structure Determination of the Oxygen Evolution Catalyst M <sub>4</sub> ssbauerite. <i>Journal of Physical Chemistry C</i> , 2019, 123, 25157-25165.	3.1	7
9	Fast room temperature lability of aluminosilicate zeolites. <i>Nature Communications</i> , 2019, 10, 4690.	12.8	75
10	The effect of water on the validity of L <sub>1</sub> wenstein's rule. <i>Chemical Science</i> , 2019, 10, 5705-5711.	7.4	37
11	The Br <sub>1</sub> sted acidity of three- and two-dimensional zeolites. <i>Microporous and Mesoporous Materials</i> , 2019, 282, 121-132.	4.4	21
12	Control of spintronic and electronic properties of bimetallic and vacancy-ordered vanadium carbide MXenes via surface functionalization. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 25802-25808.	2.8	22
13	The Lewis acidity of three- and two-dimensional zeolites: The effect of framework topology. <i>Catalysis Today</i> , 2018, 304, 12-21.	4.4	13
14	Towards <i>operando</i> computational modeling in heterogeneous catalysis. <i>Chemical Society Reviews</i> , 2018, 47, 8307-8348.	38.1	169
15	Density functional theory for molecular and periodic systems using density fitting and continuous fast multipole method: Analytical gradients. <i>Journal of Computational Chemistry</i> , 2016, 37, 2518-2526.	3.3	29
16	PbS Clusters Embedded in Sodalite Zeolite Cavities of Different Compositions: Unraveling the Structural Evolution and Optical Properties Using ab Initio Calculations. <i>Journal of Physical Chemistry C</i> , 2016, 120, 27050-27065.	3.1	12
17	Low-memory iterative density fitting. <i>Journal of Computational Chemistry</i> , 2015, 36, 1521-1535.	3.3	15
18	Accurate Ab Initio Description of Adsorption on Coordinatively Unsaturated Cu <sup>2+</sup> and Fe <sup>3+</sup> Sites in MOFs. <i>Journal of Chemical Theory and Computation</i> , 2015, 11, 230-238.	5.3	36

#	ARTICLE	IF	CITATIONS
19	Accurate ab initio Description of Adsorption on Coordinatively Unsaturated Sites in Metal-Organic Frameworks. , 2015, , 175-206.		3
20	Adsorption of CO <sub>2</sub> in FAU zeolites: Effect of zeolite composition. Catalysis Today, 2014, 227, 50-56.	4.4	80
21	Theoretical investigation of layered zeolite frameworks: Interaction between IPC-1P layers derived from zeolite UTL. Catalysis Today, 2013, 204, 15-21.	4.4	33
22	Adsorption of Propane and Propylene on CuBTC Metal-Organic Framework: Combined Theoretical and Experimental Investigation. Journal of Physical Chemistry C, 2013, 117, 11159-11167.	3.1	48
23	A family of zeolites with controlled pore size prepared using a top-down method. Nature Chemistry, 2013, 5, 628-633.	13.6	355
24	Control of CO <sub>2</sub> adsorption heats by the Al distribution in FER zeolites. Physical Chemistry Chemical Physics, 2012, 14, 1117-1120.	2.8	28
25	Controlling the Adsorption Enthalpy of CO <sub>2</sub> in Zeolites by Framework Topology and Composition. ChemSusChem, 2012, 5, 2011-2022.	6.8	93
26	Combined Theoretical and Experimental Investigation of CO Adsorption on Coordinatively Unsaturated Sites in CuBTC MOF. ChemPhysChem, 2012, 13, 488-495.	2.1	53
27	Understanding CO <sub>2</sub> Adsorption in CuBTC MOF: Comparing Combined DFT-Ab Initio Calculations with Microcalorimetry Experiments. Journal of Physical Chemistry C, 2011, 115, 17925-17933.	3.1	146
28	Accurate Description of Argon and Water Adsorption on Surfaces of Graphene-Based Carbon Allotropes. Journal of Physical Chemistry A, 2011, 115, 11387-11393.	2.5	68
29	Accurate Prediction of Methane Adsorption in a Metal-Organic Framework with Unsaturated Metal Sites by Direct Implementation of an ab Initio Derived Potential Energy Surface in GCMC Simulation. Journal of Physical Chemistry C, 2011, 115, 23074-23080.	3.1	86
30	Periodic DFT investigation of the effect of aluminium content on the properties of the acid zeolite H-FER. Physical Chemistry Chemical Physics, 2010, 12, 1497.	2.8	49
31	Water Adsorption on Coordinatively Unsaturated Sites in CuBTC MOF. Journal of Physical Chemistry Letters, 2010, 1, 3354-3359.	4.6	166
32	Computational and FTIR spectroscopic studies on carbon monoxide and dinitrogen adsorption on a high-silica H-FER zeolite. Physical Chemistry Chemical Physics, 2009, 11, 791-802.	2.8	73
33	Correction to Mechanism of Zeolite Hydrolysis under Basic Conditions. Chemistry of Materials, 0, , .	6.7	0