

# Sebastian Ritterbex

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5016055/publications.pdf>

Version: 2024-02-01

8  
papers

99  
citations

1684188  
5  
h-index

1588992  
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g-index

8  
all docs

8  
docs citations

8  
times ranked

153  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ab Initio Study on the Lower Mantle Minerals. Annual Review of Earth and Planetary Sciences, 2020, 48, 99-119.	11.0	5
2	Novel configurations of VN4 and VN4H defects in diamond platelets: Structure, energetics and vibrational properties. Diamond and Related Materials, 2020, 108, 107957.	3.9	5
3	Deformation across the mantle transition zone: A theoretical mineral physics view. Earth and Planetary Science Letters, 2020, 547, 116438.	4.4	11
4	Viscosity of hcp iron at Earth's inner core conditions from density functional theory. Scientific Reports, 2020, 10, 6311.	3.3	20
5	Vacancies in MgO at ultrahigh pressure: About mantle rheology of super-Earths. Icarus, 2018, 305, 350-357.	2.5	11
6	On low temperature glide of dissociated $\sim 110^\circ$ dislocations in strontium titanate. Philosophical Magazine, 2018, 98, 1397-1411.	1.6	2
7	Pure climb creep mechanism drives flow in Earth's lower mantle. Science Advances, 2017, 3, e1601958.	10.3	37
8	Modeling dislocation glide and lattice friction in $\text{Mg}_2\text{SiO}_4$ wadsleyite in conditions of the Earth's transition zone. American Mineralogist, 2016, 101, 2085-2094.	1.9	8