

# Christoph Lauer

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3967943/publications.pdf>

Version: 2024-02-01

9  
papers

115  
citations

1478505

6  
h-index

1588992

8  
g-index

9  
all docs

9  
docs citations

9  
times ranked

116  
citing authors

#	ARTICLE	IF	CITATIONS
1	On the Relation of Amorphous Calcium Carbonate and the Macromechanical Properties of Sea Urchin Spines. <i>Advanced Engineering Materials</i> , 2020, 22, 1900922.	3.5	4
2	Strength, elasticity and the limits of energy dissipation in two related sea urchin spines with biomimetic potential. <i>Bioinspiration and Biomimetics</i> , 2019, 14, 016018.	2.9	7
3	The mechanical properties of heat-treated rocks: a comparison between chert and silcrete. <i>Archaeological and Anthropological Sciences</i> , 2019, 11, 2489-2506.	1.8	33
4	Morphology and porosity of the spines of the sea urchin <i>Heterocentrotus mamillatus</i> and their implications on the mechanical performance. <i>Zoomorphology</i> , 2018, 137, 139-154.	0.8	14
5	Strength-size relationships in two porous biological materials. <i>Acta Biomaterialia</i> , 2018, 77, 322-332.	8.3	19
6	Detailed near-infrared study of the "water"-related transformations in silcrete upon heat treatment. <i>Physics and Chemistry of Minerals</i> , 2017, 44, 21-31.	0.8	24
7	13. Sea urchin spines as role models for biological design and integrative structures. , 2017, , 273-284.		2
8	Developing the Experimental Basis for an Evaluation of Scaling Properties of Brittle and "Quasi-Brittle" Biological Materials. <i>Biologically-inspired Systems</i> , 2016, , 277-294.	0.2	3
9	Plants and Animals as Source of Inspiration for Energy Dissipation in Load Bearing Systems and Facades. <i>Biologically-inspired Systems</i> , 2016, , 109-133.	0.2	9