

# Christoph Kock

## List of Publications by Year in descending order

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Version: 2024-02-01

8  
papers

45  
citations

2258059

3  
h-index

1872680

6  
g-index

10  
all docs

10  
docs citations

10  
times ranked

29  
citing authors

#	ARTICLE	IF	CITATIONS
1	Residual Stresses in Hot Bulk Formed Parts – A Phenomenological Approach for the Austenite-to-Martensite Phase Transformation. Minerals, Metals and Materials Series, 2021, , 2345-2355.	0.4	3
2	Strategies for residual stress adjustment in bulk metal forming. Archive of Applied Mechanics, 2021, 91, 3557-3577.	2.2	8
3	Targeted adjustment of residual stresses in hot-formed components by means of process design based on finite element simulation. Archive of Applied Mechanics, 2021, 91, 3579-3602.	2.2	2
4	Investigations on Residual Stresses within Hot-Bulk-Formed Components Using Process Simulation and the Contour Method. Metals, 2021, 11, 566.	2.3	2
5	Numerical Simulation of the Abrasive Wear Behavior of Selectively Oxidized $\pm$ -Fe <sub>2</sub> O <sub>3</sub> Oxide Layers on Tool Steel Surfaces. Jom, 2020, 72, 2536-2547.	1.9	2
6	Experimental investigations on the interactions between the process parameters of hot forming and the resulting residual stresses in the component. Procedia Manufacturing, 2020, 50, 706-712.	1.9	2
7	Experimental and Numerical Investigations of the Development of Residual Stresses in Thermo-Mechanically Processed Cr-Alloyed Steel 1.3505. Metals, 2019, 9, 480.	2.3	18
8	Experimental-numerical approach to efficient TTT-generation for simulation of phase transformations in thermomechanical forming processes. IOP Conference Series: Materials Science and Engineering, 0, 461, 012040.	0.6	7