

# Yiyang Zhang

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1803326/publications.pdf>

Version: 2024-02-01

29  
papers

362  
citations

1162889

8  
h-index

839398

18  
g-index

30  
all docs

30  
docs citations

30  
times ranked

385  
citing authors

#	ARTICLE	IF	CITATIONS
1	White Emission by Frequency Up-Conversion in Yb <sup>3+</sup> -Ho <sup>3+</sup> -Tm <sup>3+</sup> Triply Doped Hexagonal NaYF <sub>4</sub> Nanorods. Journal of Physical Chemistry C, 2009, 113, 18995-18999.	1.5	116
2	Control of deposition height in WAAM using visual inspection of previous and current layers. Journal of Intelligent Manufacturing, 2021, 32, 2209-2217.	4.4	40
3	Capture Deformation Twinning in Mg during Shock Compression with Ultrafast Synchrotron X-Ray Diffraction. Physical Review Letters, 2019, 123, 255501.	2.9	28
4	Novel X-Ray and Optical Diagnostics for Studying Energetic Materials: A Review. Engineering, 2020, 6, 992-1005.	3.2	23
5	Operation optimization for microgrids under centralized control. , 2010, , .		21
6	<i>GAPD</i>: a GPU-accelerated atom-based polychromatic diffraction simulation code. Journal of Synchrotron Radiation, 2018, 25, 604-611.	1.0	20
7	Texture evolution in nanocrystalline Cu under shock compression. Journal of Applied Physics, 2020, 127, .	1.1	12
8	Onset of detwinning in Mg-3Al-1Zn alloy: A synchrotron-based X-ray diffraction study. Scripta Materialia, 2021, 190, 113-117.	2.6	12
9	Ultrafast X-Ray Diffraction Visualization of $\beta \rightarrow \alpha'$ Phase Transition in KCl under Shock Compression. Physical Review Letters, 2021, 127, 045702.	2.9	10
10	Effects of crocin on frozen-thawed sperm apoptosis, protamine expression and membrane lipid oxidation in Yanbian yellow cattle. Reproduction in Domestic Animals, 2020, 55, 1011-1020.	0.6	9
11	Deformation dynamics and pre-compression effects on Mg-3Al-1Zn alloy: An in situ synchrotron-based multiscale study. Materials Characterization, 2021, 179, 111349.	1.9	8
12	Binding mechanism of nine N-phenylpiperazine derivatives and $\beta$ -adrenoceptor using site-directed molecular docking and high performance affinity chromatography. RSC Advances, 2015, 5, 57050-57057.	1.7	6
13	Simulations of X-ray diffraction of shock-compressed single-crystal tantalum with synchrotron undulator sources. Journal of Synchrotron Radiation, 2018, 25, 748-756.	1.0	6
14	Texture evolution of Cu nanopowder under uniaxial compression. Materialia, 2018, 1, 236-243.	1.3	6
15	Deformation twinning in single-crystal Mg under high strain rate tensile loading: A time-resolved X-ray diffraction study. International Journal of Mechanical Sciences, 2022, 220, 107106.	3.6	6
16	Height control in GMA-AM using external wire as controlling variable. Materials and Manufacturing Processes, 2023, 38, 971-979.	2.7	5
17	<i>DATAD</i>: a Python-based X-ray diffraction simulation code for arbitrary texture and arbitrary deformation. Journal of Applied Crystallography, 2021, 54, 686-696.	1.9	4
18	Deformation dynamics in pre-twinned Mg-3Al-1Zn alloy: A synchrotron X-ray study. Materials Letters, 2021, 292, 129626.	1.3	4

#	ARTICLE	IF	CITATIONS
19	Penetration dynamics of a carbonate sand: A synchrotron phase contrast imaging study. International Journal of Impact Engineering, 2021, 152, 103839.	2.4	4
20	Loading dependence and tensionâ€“compression asymmetry of deformation twinning in textured Mg-3Al-1Zn alloy: A multiscale synchrotron X-ray study. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 826, 141987.	2.6	4
21	Deducing density and strength of nanocrystalline Ta and diamond under extreme conditions from X-ray diffraction. Journal of Synchrotron Radiation, 2019, 26, 413-421.	1.0	3
22	Impact-induced twinning in a magnesium alloy under different stress conditions. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 818, 141360.	2.6	3
23	<i>In situ</i> determination of the extreme damage resistance behavior in stomatopod dactyl club. Journal of Synchrotron Radiation, 2022, 29, 775-786.	1.0	3
24	Association of PRKCA expression and polymorphisms with layer duck eggshell quality. British Poultry Science, 2021, 62, 8-16.	0.8	2
25	Texture evolution in nanocrystalline Ta under shock compression. Journal of Applied Physics, 2021, 129, .	1.1	2
26	Full strain tensor measurements with X-ray diffraction and strain field mapping: a simulation study. Journal of Synchrotron Radiation, 2020, 27, 646-652.	1.0	1
27	Multiscale measurements with adjustable x-ray spot size for in situ imaging and diffraction. Review of Scientific Instruments, 2021, 92, 033108.	0.6	1
28	Effects of beam divergence and polychromaticity on small angle x-ray scattering measurements with laser plasma sources. AIP Advances, 2022, 12, .	0.6	1
29	Hyaluronidase Pretreatment Improves the Cryopreservation of Human Ovarian Tissue. Cryo-Letters, 2019, 40, 139-144.	0.1	1