

Dung-Sheng Tsai

List of Publications by Year in descending order

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32
papers

3,242
citations

567144

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526166

27
g-index

32
all docs

32
docs citations

32
times ranked

6427
citing authors

#	ARTICLE	IF	CITATIONS
1	Monolayer MoS ₂ Heterojunction Solar Cells. ACS Nano, 2014, 8, 8317-8322.	7.3	1,081
2	Mass production and dynamic imaging of fluorescent nanodiamonds. Nature Nanotechnology, 2008, 3, 284-288.	15.6	720
3	Few-Layer MoS ₂ with High Broadband Photogain and Fast Optical Switching for Use in Harsh Environments. ACS Nano, 2013, 7, 3905-3911.	7.3	584
4	Ultra-High-Responsivity Broadband Detection of Si Metal-Semiconductor-Metal Schottky Photodetectors Improved by ZnO Nanorod Arrays. ACS Nano, 2011, 5, 7748-7753.	7.3	145
5	Solar-Blind Photodetectors for Harsh Electronics. Scientific Reports, 2013, 3, 2628.	1.6	113
6	Highly Deformable Origami Paper Photodetector Arrays. ACS Nano, 2017, 11, 10230-10235.	7.3	94
7	4H-SiC Metal-Semiconductor-Metal Ultraviolet Photodetectors in Operation of 450 nm. IEEE Electron Device Letters, 2012, 33, 1586-1588.	2.2	76
8	Fast-Response, Highly Air-Stable, and Water-Resistant Organic Photodetectors Based on a Single-Crystal Pt Complex. Advanced Materials, 2020, 32, e1904634.	11.1	56
9	Photostriction of strontium ruthenate. Nature Communications, 2017, 8, 15018.	5.8	53
10	See-Through Ga ₂ O ₃ Solar-Blind Photodetectors for Use in Harsh Environments. IEEE Journal of Selected Topics in Quantum Electronics, 2014, 20, 112-117.	1.9	49
11	Omnidirectional Harvesting of Weak Light Using a Graphene Quantum Dot-Modified Organic/Silicon Hybrid Device. ACS Nano, 2017, 11, 4564-4570.	7.3	41
12	Trilayered MoS ₂ Metal-Semiconductor-Metal Photodetectors: Photogain and Radiation Resistance. IEEE Journal of Selected Topics in Quantum Electronics, 2014, 20, 30-35.	1.9	40
13	Significant enhancement of yellow-green light emission of ZnO nanorod arrays using Ag island films. Nanoscale, 2011, 3, 1195.	2.8	35
14	Low-Temperature, Ion Beam-Assisted SiC Thin Films With Antireflective ZnO Nanorod Arrays for High-Temperature Photodetection. IEEE Electron Device Letters, 2011, 32, 1564-1566.	2.2	31
15	2D-Layered Non-Precious Electrocatalysts for Hydrogen Evolution Reaction: Fundamentals to Applications. Catalysts, 2021, 11, 689.	1.6	20
16	Indium-rich InAlN films on GaN/sapphire by molecular beam epitaxy. Materials Research Express, 2014, 1, 015904.	0.8	13
17	Surface-Controlled Metal Oxide Resistive Memory. IEEE Electron Device Letters, 2015, 36, 1307-1309.	2.2	13
18	Control of the Metal-Insulator Transition at Complex Oxide Heterointerfaces through Visible Light. Advanced Materials, 2016, 28, 764-770.	11.1	13

#	ARTICLE	IF	CITATIONS
19	Surface effects of electrode-dependent switching behavior of resistive random-access memory. Applied Physics Letters, 2016, 109, .	1.5	13
20	Device Process and Circuit Application Interaction for Harsh Electronics: Hf ²⁺ In ²⁺ Zn ²⁺ O Thin Film Transistors as an Example. IEEE Electron Device Letters, 2017, 38, 1039-1042.	2.2	12
21	Active Site Engineering on Two-Dimensional-Layered Transition Metal Dichalcogenides for Electrochemical Energy Applications: A Mini-Review. Catalysts, 2021, 11, 151.	1.6	9
22	Camphor-Based CVD Bilayer Graphene/Si Heterostructures for Self-Powered and Broadband Photodetection. Micromachines, 2020, 11, 812.	1.4	8
23	Recent Advances on Pt-Free Electro-Catalysts for Dye-Sensitized Solar Cells. Molecules, 2021, 26, 5186.	1.7	8
24	W/TaC/SiC sandwich stack for high temperature applications. Ceramics International, 2019, 45, 22292-22297.	2.3	5
25	Enhanced thermal stability by introducing TiN diffusion barrier layer between W and SiC. Journal of the American Ceramic Society, 2019, 102, 5613-5619.	1.9	3
26	Nanocrystalline SiC metal-semiconductor-metal photodetector with ZnO nanorod arrays for high-temperature applications. , 2011, , .		2
27	Organic Semiconductors: Fast ⁺ Response, Highly Air ⁺ Stable, and Water ⁺ Resistant Organic Photodetectors Based on a Single ⁺ Crystal Pt Complex (Adv. Mater. 2/2020). Advanced Materials, 2020, 32, 2070015.	11.1	2
28	Extreme temperature 4H-SiC metal-semiconductor-metal ultraviolet photodetectors. , 2012, , .		1
29	Cat-flap micro-pendulum for low noise optomechanics. Journal Physics D: Applied Physics, 2021, 54, 035104.	1.3	1
30	Amorphous silicon nitride deposited by an NH ₃ -free plasma enhanced chemical vapor deposition method for the coatings of the next generation laser interferometer gravitational waves detector. Classical and Quantum Gravity, 0, , .	1.5	1
31	High-endurance solar-blind photodetectors using AlN on Si substrates for extreme harsh environment applications. , 2013, , .		0
32	Transparent Ga ₂ O ₃ Photodetectors for Harsh Optoelectronics. ECS Meeting Abstracts, 2014, , .	0.0	0