

# Chia-Yun Chen

## List of Publications by Year in descending order

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Version: 2024-02-01

57  
papers

1,603  
citations

361045

20  
h-index

301761

39  
g-index

57  
all docs

57  
docs citations

57  
times ranked

2118  
citing authors

#	ARTICLE	IF	CITATIONS
1	Day-night active photocatalysts obtained through effective incorporation of Au@Cu <sub>2</sub> S nanoparticles onto ZnO nanowalls. <i>Journal of Hazardous Materials</i> , 2022, 421, 126674.	6.5	14
2	Interface management of silicon-nanowire based hybrid solar cells through facile solution-processed oxidation. <i>Materials Letters</i> , 2022, 307, 130967.	1.3	7
3	Synergetic Interplay of Curved Si Nanobelts and WO <sub>3</sub> Nanoparticles as Heterostructure Design Featuring Effective Room-Temperature NO <sub>2</sub> Detection. <i>ACS Applied Nano Materials</i> , 2022, 5, 8962-8972.	2.4	3
4	Light Trapping of Inclined Si Nanowires for Efficient Inorganic/Organic Hybrid Solar Cells. <i>Nanomaterials</i> , 2022, 12, 1821.	1.9	2
5	Stability improvement of Cu( <i>scp</i> )-doped ZnS/ZnO photodetectors prepared with a facile solution-processing method. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 311-318.	3.0	21
6	Dual-sized carbon quantum dots enabling outstanding silicon-based photodetectors. <i>Applied Surface Science</i> , 2021, 542, 148705.	3.1	22
7	The improved photocatalytic activity of highly expanded MoS <sub>2</sub> under visible light emitting diodes. <i>Nanoscale Advances</i> , 2021, 3, 1106-1120.	2.2	28
8	Synergistic absorbents based on SnFe <sub>2</sub> O <sub>4</sub> @ZnO nanoparticles decorated with reduced graphene oxide for highly efficient dye adsorption at room temperature. <i>RSC Advances</i> , 2021, 11, 17840-17848.	1.7	8
9	Optical Management of CQD/AgNP@SiNW Arrays with Highly Efficient Capability of Dye Degradation. <i>Catalysts</i> , 2021, 11, 399.	1.6	9
10	Hydrodynamic benefits of artificial cilia distribution towards photodegradation processes. <i>Sensors and Actuators A: Physical</i> , 2020, 313, 112184.	2.0	4
11	Highly conductive PEDOT:PSS film made with ethylene-glycol addition and heated-stir treatment for enhanced photovoltaic performances. <i>Materials Chemistry Frontiers</i> , 2020, 4, 3302-3309.	3.2	33
12	Extending Absorption Edge through the Hybrid Resonator-Based Absorber with Wideband and Near-Perfect Absorption in Visible Region. <i>Materials</i> , 2020, 13, 1470.	1.3	24
13	Simple Cosolvent-Treated PEDOT:PSS Films on Hybrid Solar Cells With Improved Efficiency. <i>IEEE Journal of Photovoltaics</i> , 2020, 10, 771-776.	1.5	9
14	Passivating silicon-based hybrid solar cells through tuning PbI <sub>2</sub> content of perovskite coatings. <i>Applied Surface Science</i> , 2020, 511, 145541.	3.1	10
15	High-Speed and Direction-Controlled Formation of Silicon Nanowire Arrays Assisted by Electric Field. <i>Nanoscale Research Letters</i> , 2020, 15, 25.	3.1	9
16	ZnO/Cu <sub>2</sub> O/Si Nanowire Arrays as Ternary Heterostructure-Based Photocatalysts with Enhanced Photodegradation Performances. <i>Nanoscale Research Letters</i> , 2019, 14, 244.	3.1	36
17	Self-formed silver nanoparticles on freestanding silicon nanowire arrays featuring SERS performances. <i>RSC Advances</i> , 2019, 9, 26037-26042.	1.7	5
18	Peculiar optical properties of bilayer silicene under the influence of external electric and magnetic fields. <i>Scientific Reports</i> , 2019, 9, 624.	1.6	18

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19	18.78% hierarchical black silicon solar cells achieved with the balance of light-trapping and interfacial contact. <i>Applied Surface Science</i> , 2019, 478, 725-732.	3.1	41
20	Vanadium Oxide as Transparent Carrier-Selective Layer in Silicon Hybrid Solar Cells Promoting Photovoltaic Performances. <i>ACS Applied Energy Materials</i> , 2019, 2, 4873-4881.	2.5	40
21	Insights for Realizing Ultrasensitive Colorimetric Detection of Glucose Based on Carbon/Silver Core/Shell Nanodots. <i>ACS Applied Bio Materials</i> , 2019, 2, 2528-2538.	2.3	12
22	Tailoring the robust superhydrophobic silicon textures with stable photodetection properties. <i>Scientific Reports</i> , 2019, 9, 1579.	1.6	8
23	On the improvement of visible-responsive photodegradation through artificial cilia. <i>Sensors and Actuators A: Physical</i> , 2019, 285, 234-240.	2.0	9
24	Use of BN-coated copper nanowires in nanocomposites with enhanced thermal conductivity and electrical insulation. <i>Advanced Composites and Hybrid Materials</i> , 2019, 2, 46-50.	9.9	38
25	Modification of TiO <sub>2</sub> nanotubes with 3-aminopropyl triethoxysilane and its performances in nanocomposite coatings. <i>New Journal of Chemistry</i> , 2018, 42, 8745-8751.	1.4	20
26	Efficient Photocatalysts Made by Uniform Decoration of Cu <sub>2</sub> O Nanoparticles on Si Nanowire Arrays with Low Visible Reflectivity. <i>Nanoscale Research Letters</i> , 2018, 13, 312.	3.1	17
27	Solution-processed ZnO/Si based heterostructures with enhanced photocatalytic performance. <i>New Journal of Chemistry</i> , 2018, 42, 13797-13802.	1.4	28
28	Well incorporation of carbon nanodots with silicon nanowire arrays featuring excellent photocatalytic performances. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 11786-11792.	1.3	36
29	Broadband Photocatalytic Activity of Mesoporous Cd(II)-Doped TiO <sub>2</sub> . <i>ChemistrySelect</i> , 2017, 2, 3648-3656.	0.7	6
30	Surface modification of TiO <sub>2</sub> nanotubes by grafting with APTS coupling agents. <i>Materials Research Express</i> , 2017, 4, 105043.	0.8	12
31	Highly Porous Silicon Nanowires Made with Solvent-Mediated Wet Chemical Etching and Their Thermoelectric Applications. <i>ChemistrySelect</i> , 2017, 2, 10865-10870.	0.7	2
32	Enhancing formation rate of highly-oriented silicon nanowire arrays with the assistance of back substrates. <i>Scientific Reports</i> , 2017, 7, 3164.	1.6	16
33	Inherent formation of porous p-type Si nanowires using palladium-assisted chemical etching. <i>Applied Surface Science</i> , 2017, 392, 498-502.	3.1	21
34	Hybrid black silicon solar cells textured with the interplay of copper-induced galvanic displacement. <i>Scientific Reports</i> , 2017, 7, 17177.	1.6	35
35	Role of Annealing Temperature on the Formation of Aligned Zinc Oxide Nanorod Arrays for Efficient Photocatalysts and Photodetectors. <i>Science of Advanced Materials</i> , 2016, 8, 2197-2203.	0.1	14
36	Uniform trench arrays with controllable tilted profiles using metal-assisted chemical etching. <i>Applied Surface Science</i> , 2015, 333, 152-156.	3.1	17

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37	SERS detection and antibacterial activity from uniform incorporation of Ag nanoparticles with aligned Si nanowires. <i>Applied Surface Science</i> , 2015, 355, 197-202.	3.1	18
38	Kinetic study of self-assembly of Ni( $\text{SCP}$ )-doped $\text{TiO}_2$ nanocatalysts for the photodegradation of azo pollutants. <i>RSC Advances</i> , 2015, 5, 88266-88271.	1.7	20
39	Silver-Assisted Chemical Etching on Silicon with Polyvinylpyrrolidone-Mediated Formation of Silver Dendrites. <i>ChemPhysChem</i> , 2015, 16, 540-545.	1.0	6
40	Unveiling the shape-diversified silicon nanowires made by $\text{HF}/\text{HNO}_3$ isotropic etching with the assistance of silver. <i>Nanoscale</i> , 2015, 7, 1216-1223.	2.8	42
41	Robust and Enhanced Photocatalytic Performance of Coupled $\text{CdSe}/\text{TiO}_2$ Photocatalysts. <i>Science of Advanced Materials</i> , 2015, 7, 1053-1057.	0.1	7
42	Evolution of Etching Kinetics and Directional Transition of Nanowires Formed on Pyramidal Microtextures. <i>Chemistry - an Asian Journal</i> , 2014, 9, 93-99.	1.7	12
43	Exploring the kinetics of ordered silicon nanowires with the formation of nanogaps using metal-assisted chemical etching. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 26711-26714.	1.3	12
44	Shape-diversified silver nanostructures uniformly covered on aluminium micro-powders as effective SERS substrates. <i>Nanoscale</i> , 2014, 6, 811-816.	2.8	17
45	The use of polyimide-modified aluminum nitride fillers in $\text{AlN}/\text{PI}/\text{Epoxy}$ composites with enhanced thermal conductivity for electronic encapsulation. <i>Scientific Reports</i> , 2014, 4, 4779.	1.6	78
46	Magnetically actuated artificial cilia for optimum mixing performance in microfluidics. <i>Lab on A Chip</i> , 2013, 13, 2834.	3.1	83
47	Morphological transition of Si surfaces from solid nanowires to porous nanobelts at room temperature. <i>Chemical Communications</i> , 2013, 49, 7295.	2.2	12
48	Tailoring Broadband Antireflection on a Silicon Surface through Two-Step Silver-Assisted Chemical Etching. <i>ChemPhysChem</i> , 2012, 13, 1415-1420.	1.0	20
49	Photocatalytic decolorization of Remazol Black 5 and Remazol Brilliant Orange 3R by mesoporous $\text{TiO}_2$ . <i>Journal of Environmental Management</i> , 2012, 102, 125-133.	3.8	26
50	Competitive biosorption of azo dyes from aqueous solution on the templated crosslinked-chitosan nanoparticles. <i>Journal of Hazardous Materials</i> , 2011, 185, 430-441.	6.5	82
51	Biosorption of $\text{Cu}(\text{II})$ , $\text{Zn}(\text{II})$ , $\text{Ni}(\text{II})$ and $\text{Pb}(\text{II})$ ions by cross-linked metal-imprinted chitosans with epichlorohydrin. <i>Journal of Environmental Management</i> , 2011, 92, 796-802.	3.8	106
52	Asymmetric coupling between subradiant and superradiant plasmonic resonances and its enhanced sensing performance. <i>Optics Express</i> , 2009, 17, 15372.	1.7	198
53	Electric and magnetic responses in the multiple-split ring resonators by electric excitation. <i>Journal of Applied Physics</i> , 2009, 105, 124913.	1.1	5
54	Morphological Control of Single-Crystalline Silicon Nanowire Arrays near Room Temperature. <i>Advanced Materials</i> , 2008, 20, 3811-3815.	11.1	165

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55	Experimental verification of standing-wave plasmonic resonances in split-ring resonators. Applied Physics Letters, 2008, 93, .	1.5	58
56	Clarification of electromagnetic responses in split-ring resonators from electric excitation. , 2008, , .		0
57	A Catalytic and Interfacing PEDOT:PSS/CuPc Polymerized on Cloth Fiber to Electroâ€Metalize Stretchable Copper Conductive Pattern. Advanced Materials Interfaces, 0, , 2101462.	1.9	2