

# Hiroto Watanabe

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/44746/publications.pdf>

Version: 2024-02-01

11  
papers

181  
citations

1478505

6  
h-index

1281871

11  
g-index

12  
all docs

12  
docs citations

12  
times ranked

322  
citing authors

#	ARTICLE	IF	CITATIONS
1	Band-gap expansion of tungsten oxide quantum dots synthesized in sub-nano porous silica. <i>Chemical Communications</i> , 2013, 49, 8477.	4.1	78
2	Significant Increase in Band Gap and Emission Efficiency of In <sub>2</sub> O <sub>3</sub> Quantum Dots by Size-Tuning around 1 nm in Supermicroporous Silicas. <i>Langmuir</i> , 2017, 33, 3014-3017.	3.5	24
3	Size-Dependent Thermochromism through Enhanced Electron-Phonon Coupling in 1-...nm Quantum Dots. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 10706-10709.	13.8	18
4	Dynamic adsorption of toluene on pore-size tuned supermicroporous silicas. <i>Microporous and Mesoporous Materials</i> , 2015, 214, 41-44.	4.4	18
5	Tuning of photocatalytic reduction by conduction band engineering of semiconductor quantum dots with experimental evaluation of the band edge potential. <i>Chemical Communications</i> , 2016, 52, 6185-6188.	4.1	16
6	Enhanced Quantum Yield of Fluorophores in Confined Spaces of Supermicroporous Silicas. <i>Bulletin of the Chemical Society of Japan</i> , 2018, 91, 87-91.	3.2	12
7	Supermicroporous Silica Nanograins: Synthesis and Application. <i>Langmuir</i> , 2019, 35, 5594-5598.	3.5	4
8	Emergence of practical fluorescence in a confined space of nanoporous silica: significantly enhanced quantum yields of a conjugated molecule. <i>Chemical Communications</i> , 2021, 57, 13150-13153.	4.1	4
9	Enhanced Quantum Yield of Nanographenes Incorporated in Supermicroporous Silicas and the Co-Adsorption Effect of Water Molecules. <i>Bulletin of the Chemical Society of Japan</i> , 2019, 92, 923-926.	3.2	3
10	Preparation of titania with double band structure derived from a quantum size effect: Drastic increase in the photocatalytic activity. <i>Materials Letters</i> , 2021, 304, 130609.	2.6	3
11	Diatom-mimetic channeled mesoporous silica membranes: self-organized formation of a hierarchical porous framework. <i>Materials Chemistry Frontiers</i> , 2021, 5, 862-868.	5.9	1