

# Kai Huang

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1872270/publications.pdf>

Version: 2024-02-01

21  
papers

406  
citations

1163117

8  
h-index

752698

20  
g-index

22  
all docs

22  
docs citations

22  
times ranked

741  
citing authors

#	ARTICLE	IF	CITATIONS
1	Adsorption and Migration of Silver on Group IV Semiconductor (001) Surfaces by Density Functional Theory. <i>Journal of Physical Chemistry C</i> , 2022, 126, 8134-8142.	3.1	1
2	Microwave N <sub>2</sub> plasma nitridation of H-diamond (111) surface studied by ex situ XPS, HREELS, UPS, TPD, LEED and DFT. <i>Applied Surface Science</i> , 2022, 600, 154085.	6.1	6
3	Atomistic Insight into Nitrogen-Terminated Diamond(001) Surfaces by the Adsorption of N, NH, and NH <sub>2</sub> : A Density Functional Theory Study. <i>Langmuir</i> , 2021, 37, 6248-6256.	3.5	4
4	Isolated and assembled silver aggregates on the Si(001) surface: the initial stage of film formation. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 4161-4166.	2.8	4
5	Effect of Surface Hydrogenation on the Adsorption and Thermal Evolution of Nitrogen Species on Diamond(001) by Microwave N <sub>2</sub> Plasma. <i>Journal of Physical Chemistry C</i> , 2021, 125, 28157-28161.	3.1	5
6	Electron Attachment Leads to Unidirectional In-Plane Molecular Rotation of Para-Chlorostyrene on Si(100). <i>Journal of Physical Chemistry C</i> , 2019, 123, 18425-18431.	3.1	2
7	How Silver Grows on the Silicon (001) Surface: A Theoretical and Experimental Investigation. <i>ACS Applied Electronic Materials</i> , 2019, 1, 122-131.	4.3	4
8	Identification of Tetramers in Silver Films Grown on the Si(001) Surface at Room Temperature. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 6275-6279.	4.6	5
9	Direct and Delayed Dynamics in Electron-Induced Surface Reaction. <i>Journal of the American Chemical Society</i> , 2017, 139, 17368-17375.	13.7	8
10	Bond selectivity in electron-induced reaction due to directed recoil on an anisotropic substrate. <i>Nature Communications</i> , 2016, 7, 13690.	12.8	14
11	Clocking Surface Reaction by In-Plane Product Rotation. <i>Journal of the American Chemical Society</i> , 2016, 138, 7377-7385.	13.7	8
12	Dynamics of surface-migration: Electron-induced reaction of 1,2-dihaloethanes on Si(100). <i>Surface Science</i> , 2016, 652, 312-321.	1.9	8
13	Vibrational Excitation Induces Double Reaction. <i>ACS Nano</i> , 2014, 8, 12468-12475.	14.6	14
14	Dissociative adsorption of CH <sub>3</sub> X (X = Br and Cl) on a silicon(100) surface revisited by density functional theory. <i>Journal of Chemical Physics</i> , 2014, 141, 174701.	3.0	11
15	Charge competition with oxygen molecules determines the growth of gold particles on doped CaO films. <i>Faraday Discussions</i> , 2013, 162, 153.	3.2	10
16	Single-Electron Induces Double-Reaction by Charge Delocalization. <i>Journal of the American Chemical Society</i> , 2013, 135, 6220-6225.	13.7	41
17	Effect of Alkyl Chain-Length on Dissociative Attachment: 1-Bromoalkanes on Si(100)-c(4 $\times$ 2). <i>Journal of Physical Chemistry C</i> , 2012, 116, 10129-10137.	3.1	12
18	Adsorbate Alignment in Surface Halogenation: Standing Up is Better than Lying Down. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 9061-9065.	13.8	6

#	ARTICLE	IF	CITATIONS
19	Pulsed-dosing controls self-assembly: 1-Bromopentane on Si(1 1 1)-7 Å—7. Chemical Physics Letters, 2012, 527, 1-6.	2.6	5
20	Facile Charge-Displacement at Silicon Gives Spaced-out Reaction. Journal of the American Chemical Society, 2011, 133, 16560-16565.	13.7	7
21	Ultraviolet Photodetectors Based on Anodic TiO <sub>2</sub> Nanotube Arrays. Journal of Physical Chemistry C, 2010, 114, 10725-10729.	3.1	230