Kai Huang

List of Publications by Year
in descending order

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

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21	406	1163117 8	752698 20
papers	citations	h-index	g-index

22	22	22	741
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ultraviolet Photodetectors Based on Anodic TiO₂ Nanotube Arrays. Journal of Physical Chemistry C, 2010, 114, 10725-10729.	3.1	230
2	Single-Electron Induces Double-Reaction by Charge Delocalization. Journal of the American Chemical Society, 2013, 135, 6220-6225.	13.7	41
3	Vibrational Excitation Induces Double Reaction. ACS Nano, 2014, 8, 12468-12475.	14.6	14
4	Bond selectivity in electron-induced reaction due to directed recoil on an anisotropic substrate. Nature Communications, 2016, 7, 13690.	12.8	14
5	Effect of Alkyl Chain-Length on Dissociative Attachment: 1-Bromoalkanes on Si(100)-c(4Ã—2). Journal of Physical Chemistry C, 2012, 116, 10129-10137.	3.1	12
6	Dissociative adsorption of CH3X (X = Br and Cl) on a silicon(100) surface revisited by density functional theory. Journal of Chemical Physics, 2014, 141, 174701.	3.0	11
7	Charge competition with oxygen molecules determines the growth of gold particles on doped CaO films. Faraday Discussions, 2013, 162, 153.	3.2	10
8	Clocking Surface Reaction by In-Plane Product Rotation. Journal of the American Chemical Society, 2016, 138, 7377-7385.	13.7	8
9	Dynamics of surface-migration: Electron-induced reaction of 1,2-dihaloethanes on Si(100). Surface Science, 2016, 652, 312-321.	1.9	8
10	Direct and Delayed Dynamics in Electron-Induced Surface Reaction. Journal of the American Chemical Society, 2017, 139, 17368-17375.	13.7	8
11	Facile Charge-Displacement at Silicon Gives Spaced-out Reaction. Journal of the American Chemical Society, 2011, 133, 16560-16565.	13.7	7
12	Adsorbate Alignment in Surface Halogenation: Standing Up is Better than Lying Down. Angewandte Chemie - International Edition, 2012, 51, 9061-9065.	13.8	6
13	Microwave N2 plasma nitridation of H-diamond (111) surface studied by ex situ XPS, HREELS, UPS, TPD, LEED and DFT. Applied Surface Science, 2022, 600, 154085.	6.1	6
14	Pulsed-dosing controls self-assembly: 1-Bromopentane on Si(1 1 1)-7 Ã— 7. Chemical Physics Letters, 2012, 527, 1-6.	2.6	5
15	Identification of Tetramers in Silver Films Grown on the Si(001) Surface at Room Temperature. Journal of Physical Chemistry Letters, 2018, 9, 6275-6279.	4.6	5
16	Effect of Surface Hydrogenation on the Adsorption and Thermal Evolution of Nitrogen Species on Diamond(001) by Microwave N₂ Plasma. Journal of Physical Chemistry C, 2021, 125, 28157-28161.	3.1	5
17	How Silver Grows on the Silicon (001) Surface: A Theoretical and Experimental Investigation. ACS Applied Electronic Materials, 2019, 1, 122-131.	4.3	4
18	Atomistic Insight into Nitrogen-Terminated Diamond(001) Surfaces by the Adsorption of N, NH, and NH2: A Density Functional Theory Study. Langmuir, 2021, 37, 6248-6256.	3.5	4

#	Article	IF	Citations
19	Isolated and assembled silver aggregates on the Si(001) surface: the initial stage of film formation. Physical Chemistry Chemical Physics, 2021, 23, 4161-4166.	2.8	4
20	Electron Attachment Leads to Unidirectional In-Plane Molecular Rotation of Para-Chlorostyrene on Si(100). Journal of Physical Chemistry C, 2019, 123, 18425-18431.	3.1	2
21	Adsorption and Migration of Silver on Group IV Semiconductor (001) Surfaces by Density Functional Theory. Journal of Physical Chemistry C, 2022, 126, 8134-8142.	3.1	1