

Aart W Kleyn

List of Publications by Year in descending order

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24
papers

709
citations

471509
17
h-index

677142
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g-index

24
all docs

24
docs citations

24
times ranked

710
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular beams and chemical dynamics at surfaces. <i>Chemical Society Reviews</i> , 2003, 32, 87-95.	38.1	112
2	Coulomb explosion in femtosecond laser ablation of Si(111). <i>Applied Physics Letters</i> , 2003, 82, 4190-4192.	3.3	84
3	The dynamics of the dissociative adsorption of methane on Pt(533). <i>Journal of Chemical Physics</i> , 2003, 118, 3334-3341.	3.0	48
4	Supersonic molecular beam studies of dissociative adsorption of H ₂ on Ru(0001). <i>Journal of Chemical Physics</i> , 2007, 127, 244701.	3.0	47
5	Carbon dioxide dissociation in non-thermal radiofrequency and microwave plasma. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 294001.	2.8	36
6	Boudouard reaction driven by thermal plasma for efficient CO ₂ conversion and energy storage. <i>Journal of Energy Chemistry</i> , 2020, 45, 128-134.	12.9	34
7	The Energy Dependence of the Ratio of Step and Terrace Reactivity for H ₂ Dissociation on Stepped Platinum. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 5174-5177.	13.8	33
8	Separating Catalytic Activity at Edges and Terraces on Platinum: Hydrogen Dissociation. <i>Journal of Physical Chemistry C</i> , 2013, 117, 9266-9274.	3.1	33
9	Dynamics of hydrogen dissociation on stepped platinum. <i>Journal of Chemical Physics</i> , 2008, 129, 224707.	3.0	31
10	Anomalous Dependence of the Reactivity on the Presence of Steps: Dissociation of D ₂ on Cu(211). <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 170-175.	4.6	27
11	CO ₂ conversion by plasma: how to get efficient CO ₂ conversion and high energy efficiency. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 7974-7987.	2.8	27
12	Hydrogen adsorption and desorption from Cu(111) and Cu(211). <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 22477-22488.	2.8	26
13	Tuning of Conversion and Optical Emission by Electron Temperature in Inductively Coupled CO ₂ Plasma. <i>Journal of Physical Chemistry C</i> , 2018, 122, 19338-19347.	3.1	26
14	A compact molecular beam line. <i>Measurement Science and Technology</i> , 2002, 13, 141-149.	2.6	25
15	Eley-Rideal Reactions with N Atoms at Ru(0001): Formation of NO and NO_2 . <i>Physical Review Letters</i> , 2011, 113, 053201.	7.8	24
16	Strongly Reduced Penetration of Atomic Deuterium in Radiation-Damaged Tungsten. <i>Physical Review Letters</i> , 2013, 111, 225001.	7.8	21
17	Steps on Pt stereodynamically filter sticking of O ₂ . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 13862-13866.	7.1	21
18	Dry Reforming of Methane under Mild Conditions Using Radio Frequency Plasma. <i>Energy Technology</i> , 2020, 8, 1900886.	3.8	17

#	ARTICLE	IF	CITATIONS
19	<i>In Situ</i> Study of the Conversion Reaction of CO ₂ and CO ₂ -H ₂ Mixtures in Radio Frequency Discharge Plasma. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2019, 35, 292-298.	4.9	17
20	Enhancing CO ₂ plasma conversion using metal grid catalysts. Journal of Applied Physics, 2021, 129, .	2.5	14
21	Kinetic analysis of interaction between N atoms and O-covered Ru(0001). Journal of Chemical Physics, 2015, 143, 164708.	3.0	3
22	TiO ₂ powder modified by plasma afterglow: A correlation between active species, microstructure, and optical properties. Materials Letters, 2020, 268, 127577.	2.6	3
23	Probing Chemical Dynamics at Surfaces. Chinese Journal of Chemistry, 2001, 19, 9-15.	4.9	0
24	Millimeter Wave Communication Technology. , 2021, , 23-76.		0