

Aart W Kleyn

List of Publications by Year in descending order

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papers

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citations

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24
times ranked

710
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhancing CO ₂ plasma conversion using metal grid catalysts. Journal of Applied Physics, 2021, 129, .	2.5	14
2	Millimeter Wave Communication Technology. , 2021, , 23-76.		0
3	CO ₂ conversion by plasma: how to get efficient CO ₂ conversion and high energy efficiency. Physical Chemistry Chemical Physics, 2021, 23, 7974-7987.	2.8	27
4	Boudouard reaction driven by thermal plasma for efficient CO ₂ conversion and energy storage. Journal of Energy Chemistry, 2020, 45, 128-134.	12.9	34
5	TiO ₂ powder modified by plasma afterglow: A correlation between active species, microstructure, and optical properties. Materials Letters, 2020, 268, 127577.	2.6	3
6	Dry Reforming of Methane under Mild Conditions Using Radio Frequency Plasma. Energy Technology, 2020, 8, 1900886.	3.8	17
7	Steps on Pt stereodynamically filter sticking of O ₂ . Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 13862-13866.	7.1	21
8	<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
9	Anomalous Dependence of the Reactivity on the Presence of Steps: Dissociation of D ₂ on Cu(211). Journal of Physical Chemistry Letters, 2018, 9, 170-175.	4.6	27
10	Hydrogen adsorption and desorption from Cu(111) and Cu(211). Physical Chemistry Chemical Physics, 2018, 20, 22477-22488.	2.8	26
11	Tuning of Conversion and Optical Emission by Electron Temperature in Inductively Coupled CO ₂ Plasma. Journal of Physical Chemistry C, 2018, 122, 19338-19347.	3.1	26
12	Carbon dioxide dissociation in non-thermal radiofrequency and microwave plasma. Journal Physics D: Applied Physics, 2017, 50, 294001.	2.8	36
13	Kinetic analysis of interaction between N atoms and O-covered Ru(0001). Journal of Chemical Physics, 2015, 143, 164708.	3.0	3
14	Eley-Rideal Reactions with N Atoms at Ru(0001): Formation of NO and $\frac{d}{dt} \frac{d}{dt} N$ Physical Review Letters, 2014, 113, 053201.	7.8	24
15	Strongly Reduced Penetration of Atomic Deuterium in Radiation-Damaged Tungsten. Physical Review Letters, 2013, 111, 225001.	7.8	21
16	Separating Catalytic Activity at Edges and Terraces on Platinum: Hydrogen Dissociation. Journal of Physical Chemistry C, 2013, 117, 9266-9274.	3.1	33
17	The Energy Dependence of the Ratio of Step and Terrace Reactivity for H ₂ Dissociation on Stepped Platinum. Angewandte Chemie - International Edition, 2011, 50, 5174-5177.	13.8	33
18	Dynamics of hydrogen dissociation on stepped platinum. Journal of Chemical Physics, 2008, 129, 224707.	3.0	31

#	ARTICLE	IF	CITATIONS
19	Supersonic molecular beam studies of dissociative adsorption of H ₂ on Ru(0001). Journal of Chemical Physics, 2007, 127, 244701.	3.0	47
20	Coulomb explosion in femtosecond laser ablation of Si(111). Applied Physics Letters, 2003, 82, 4190-4192.	3.3	84
21	Molecular beams and chemical dynamics at surfaces. Chemical Society Reviews, 2003, 32, 87-95.	38.1	112
22	The dynamics of the dissociative adsorption of methane on Pt(533). Journal of Chemical Physics, 2003, 118, 3334-3341.	3.0	48
23	A compact molecular beam line. Measurement Science and Technology, 2002, 13, 141-149.	2.6	25
24	Probing Chemical Dynamics at Surfaces. Chinese Journal of Chemistry, 2001, 19, 9-15.	4.9	0