Kee-Chul Chang

List of Publications by Year
in descending order

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50 papers	10,142 citations	304368 22 h-index	233125 45 g-index
54 all docs	54 docs citations	54 times ranked	12226 citing authors

#	Article	IF	Citations
1	The effect of water vapor on surface oxygen exchange kinetics of thin film (La,Sr)(Co,Fe)O3-Î´. Journal of Power Sources, 2020, 451, 227478.	4.0	0
2	Stabilization of ultrathin (hydroxy)oxide films on transition metal substrates for electrochemical energy conversion. Nature Energy, 2017, 2, .	19.8	167
3	Synchrotron X-ray studies of model SOFC cathodes, part I: Thin film cathodes. Solid State Ionics, 2017, 311, 118-126.	1.3	9
4	Design of active and stable Coâ€“Moâ€“Sx chalcogels as pH-universal catalysts for the hydrogen evolution reaction. Nature Materials, 2016, 15, 197-203.	13.3	825
5	Nanoparticle scaffolds for syngas-fed solid oxide fuel cells. Journal of Materials Chemistry A, 2015, 3, 3011-3018.	5.2	12
6	Oxygen Exchange in La_{0.6}Sr_{0.4}Co_{0.2}Fe_{0.8}O_{3â^'Î´} Thin-Film Heterostructures under Applied Electric Potential. Journal of Physical Chemistry C, 2015, 119, 19915-19921.	1.5	13
7	Activityâ€“stability relationship in the surface electrochemistry of the oxygen evolution reaction. Faraday Discussions, 2014, 176, 125-133.	1.6	83
8	Activityâ€“Stability Trends for the Oxygen Evolution Reaction on Monometallic Oxides in Acidic Environments. Journal of Physical Chemistry Letters, 2014, 5, 2474-2478.	2.1	569
9	Functional links between stability and reactivity of strontium ruthenate single crystals during oxygen evolution. Nature Communications, 2014, 5, 4191.	5.8	252
10	In situ X-ray studies of film cathodes for solid oxide fuel cells. Journal of Electron Spectroscopy and Related Phenomena, 2013, 190, 75-83.	0.8	12
11	Resonant X-ray scattering studies of epitaxial complex oxide thin films. Journal of Applied Crystallography, 2013, 46, 76-87.	1.9	7
12	Potential Driven Chemical Expansion of La0.6Sr0.4Co1-xFexO3-Î´ Thin Films on Yttria Stabilized Zirconia. Materials Research Society Symposia Proceedings, 2013, 1494, 259-264.	0.1	0
13	Ultra Small Angle X-ray Scattering Studies of Solid Oxide Fuel Cell Cathode Powders. ECS Transactions, 2013, 50, 111-115.	0.3	2
14	In situ X-ray Studies of (La,Sr)MnO3_Î´, (La,Sr)CoO3_Î´, and La0.6Sr0.4Co0.2Fe0.8O3-Î´ Thin Film SOFC Cathodes Grown by Pulse Laser Deposition. Materials Research Society Symposia Proceedings, 2013, 1495, 1.	0.1	1
15	Epitaxial oxide bilayer on Pt (001) nanofacets. Journal of Chemical Physics, 2012, 136, 044704.	1.2	4
16	In situ x-ray studies of oxygen surface exchange behavior in thin film La_{0.6}Sr_{0.4}Co_{0.2}Fe_{0.8}O_{3â^'Î´}. Applied Physics Letters, 2012, 101, 051603.	1.5	20
17	Enhancing the Alkaline Hydrogen Evolution Reaction Activity through the Bifunctionality of Ni(OH)₂/Metal Catalysts. Angewandte Chemie - International Edition, 2012, 51, 12495-12498.	7.2	615
18	Trends in activity for the water electrolyser reactions on 3d M(Ni,Co,Fe,Mn) hydr(oxy)oxide catalysts. Nature Materials, 2012, 11, 550-557.	13.3	2,423

#	Article	IF	Citations
19	Enhancing Hydrogen Evolution Activity in Water Splitting by Tailoring Li ⁺ -Ni(OH) ₂ -Pt Interfaces. Science, 2011, 334, 1256-1260.	6.0	2,385
20	Effects of Li⁺, K⁺, and Ba²⁺ Cations on the ORR at Model and High Surface Area Pt and Au Surfaces in Alkaline Solutions. Journal of Physical Chemistry Letters, 2011, 2, 2733-2736.	2.1	142
21	Design and Synthesis of Bimetallic Electrocatalyst with Multilayered Pt-Skin Surfaces. Journal of the American Chemical Society, 2011, 133, 14396-14403.	6.6	541
22	Persistent oscillations of x-ray speckles: Pt (001) step flow. Applied Physics Letters, 2011, 99, 121910.	1.5	15
23	Microstructural Effects on the Oxygen Exchange Kinetics of La_{0.7}Sr_{0.3}MnO₃ Thin Films. ECS Transactions, 2011, 35, 2063-2075.	0.3	11
24	Fabrication and characterization of platinum nanoparticle arrays of controlled size, shape and orientation. Electrochimica Acta, 2010, 55, 7934-7938.	2.6	14
25	Monodisperse Pt3Co nanoparticles as electrocatalyst: the effects of particle size and pretreatment on electrocatalytic reduction of oxygen. Physical Chemistry Chemical Physics, 2010, 12, 6933.	1.3	124
26	Surface X-Ray Speckles: Coherent Surface Diffraction from Au(001). Physical Review Letters, 2009, 103, 165501.	2.9	41
27	Shape-Dependent Activity of Platinum Array Catalyst. Journal of the American Chemical Society, 2009, 131, 5732-5733.	6.6	134
28	Monodisperse Pt₃Co Nanoparticles as a Catalyst for the Oxygen Reduction Reaction: Size-Dependent Activity. Journal of Physical Chemistry C, 2009, 113, 19365-19368.	1.5	192
29	Hydrophilicity transition of the clean rutile TiO2 (1 1 0) surface. Electrochimica Acta, 2008, 53, 6173-6177.	2.6	30
30	Unique Activity of Platinum Adislands in the CO Electrooxidation Reaction. Journal of the American Chemical Society, 2008, 130, 15332-15339.	6.6	142
31	CO-Induced Lifting of Au(001) Surface Reconstruction. Journal of Physical Chemistry C, 2008, 112, 2231-2234.	1.5	18
32	In situ Synchrotron X-ray Studies of Dense Thin-Film Strontium-Doped Lanthanum Manganite Solid Oxide Fuel Cell Cathodes. Materials Research Society Symposia Proceedings, 2008, 1126, 1.	0.1	5
33	High-density electrosorbed carbon monoxide monolayers on Pt(111) under atmospheric pressure. Physical Review B, 2007, 75, .	1.1	14
34	In Situ Synchrotron X-ray Spectroscopy of Ruthenium Nanoparticles Modified with Selenium for an Oxygen Reduction Reaction. Journal of Physical Chemistry C, 2007, 111, 16889-16894.	1.5	24
35	Electrosorbed carbon monoxide monolayers on Pt(111). Electrochimica Acta, 2007, 52, 5749-5758.	2.6	17
36	Fabrication of platinum nano-array model catalysts. , 2006, 6340, 274.		1

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37	Resonance anomalous surface X-ray scattering. Radiation Physics and Chemistry, 2006, 75, 1651-1660.	1.4	19
38	Polarization-dependent resonant anomalous surface X-ray scattering of CO/Pt(111). Europhysics Letters, 2006, 74, 1032-1038.	0.7	16
39	Stability and Dissolution of Platinum Surfaces in Perchloric Acid. Journal of the Electrochemical Society, 2006, 153, B446.	1.3	141
40	Stability and Dissolution of the Platinum Single Crystal Surfaces in Perchloric Acid. ECS Transactions, 2006, 1, 167-184.	0.3	3
41	In-situ Synchrotron X-ray Spectroscopy of Ruthenium Nanoparticles Modified with Selenium for Oxygen Reduction Reaction. ECS Transactions, 2006, 3, 161-170.	0.3	3
42	Arrays of widely spaced atomic steps on Si(111) mesas due to sublimation. Surface Science, 2005, 591, 133-141.	0.8	5
43	Nanofaceted Platinum Surfaces:â€‰ A New Model System for Nanoparticle Catalysts. Journal of Physical Chemistry B, 2005, 109, 23543-23549.	1.2	26
44	Spontaneous Formation of Ridges on Patterned Mesas and Their Role in the Evolution of. Materials Research Society Symposia Proceedings, 2004, 854, U2.5.1/JJ2.5.1/KK2.5.1.	0.1	0
45	Pentacene Thin Film Growth. Chemistry of Materials, 2004, 16, 4497-4508.	3.2	588
46	Spontaneous Formation of Ridges on Patterned Mesas and Their Role in the Evolution of Step Arrays. Materials Research Society Symposia Proceedings, 2004, 849, 34.	0.1	0
47	Evolution of Mesas on Si(111) Surface Under Sublimation: Nanofabrication through the Control of Atomic Steps. Materials Research Society Symposia Proceedings, 2003, 782, 1.	0.1	0
48	A Simple Model for the Formation of Step-Free Surfaces. Materials Research Society Symposia Proceedings, 2002, 749, 1.	0.1	4
49	Spontaneous Nanoscale Corrugation of Ion-ErodedSiO2: The Role of Ion-Irradiation-Enhanced Viscous Flow. Physical Review Letters, 2001, 87, 246104.	2.9	235
50	In Situ X-Ray and Electrochemical Studies of Solid Oxide Fuel Cell/Electrolyzer Oxygen Electrodes. , 0, , 153-164.		2