Akiyoshi Kuzume

List of Publications by Year
in descending order

36 papers	1,443 citations	394421 19 h-index	345221 36 g-index
36 all docs	36 docs citations	36 times ranked	2480 citing authors

#	Article	IF	Citations
1	Oxygen reduction on stepped platinum surfaces in acidic media. Journal of Electroanalytical Chemistry, 2007, 599, 333-343.	3.8	330
2	Monitoring the Chemical State of Catalysts for CO₂ Electroreduction: An In Operando Study. ACS Catalysis, 2015, 5, 7498-7502.	11.2	243
3	Electrochemical COâ„ Reduction â€“ A Critical View on Fundamentals, Materials and Applications. Chimia, 2015, 69, 769.	0.6	130
4	Probing the chemical state of tin oxide NP catalysts during CO2 electroreduction: A complementary operando approach. Nano Energy, 2018, 53, 828-840.	16.0	71
5	A severe reduction in the cytochrome <scp>C</scp> content of <scp>G</scp>eobacter sulfurreducens eliminates its capacity for extracellular electron transfer. Environmental Microbiology Reports, 2015, 7, 219-226.	2.4	65
6	Electro-oxidation of Au(111) in contact with aqueous electrolytes: New insight from in situ vibration spectroscopy. Electrochimica Acta, 2013, 112, 853-863.	5.2	58
7	The promoting effect of water on the electroreduction of CO 2 in acetonitrile. Electrochimica Acta, 2016, 189, 38-44.	5.2	57
8	Exact mass analysis of sulfur clusters upon encapsulation by a polyaromatic capsular matrix. Nature Communications, 2017, 8, 749.	12.8	33
9	Layer-by-layer grown scalable redox-active ruthenium-based molecular multilayer thin films for electrochemical applications and beyond. Nanoscale, 2015, 7, 17685-17692.	5.6	32
10	Copper underpotential deposition at high index single crystal surfaces of Au. Journal of Electroanalytical Chemistry, 2004, 570, 157-161.	3.8	31
11	Exploitation of desilylation chemistry in tailor-made functionalization on diverse surfaces. Nature Communications, 2015, 6, 6403.	12.8	29
12	Fullerene monolayers adsorbed on high index gold single crystal surfaces. Physical Chemistry Chemical Physics, 2004, 6, 619.	2.8	25
13	Ethylene adsorption and oxidation on Pt(h k l) in acidic media. Surface Science, 2008, 602, 84-94.	1.9	25
14	PeriodicityÂof molecular clusters based on symmetry-adapted orbital model. Nature Communications, 2019, 10, 3727.	12.8	25
15	CO Oxidation on Pt(100): New Insights based on Combined Voltammetric, Microscopic and Spectroscopic Experiments. Electrochimica Acta, 2014, 133, 132-145.	5.2	23
16	Stable anchoring chemistry for room temperature charge transport through graphite-molecule contacts. Science Advances, 2017, 3, e1602297.	10.3	23
17	Reconstruction and electrochemical oxidation of Au(110) surface in 0.1 M H2SO4. Electrochimica Acta, 2014, 139, 281-288.	5.2	21
18	Characterisation of PAMPSâ€“PSS pore-filling membrane for direct methanol fuel cell. Journal of Membrane Science, 2013, 446, 92-98.	8.2	20

#	Article	IF	Citations
19	Ultrahigh sensitive Raman spectroscopy for subnanoscience: Direct observation of tin oxide clusters. Science Advances, 2019, 5, eaax6455.	10.3	20
20	An aromatic micelle with bent pentacene-based panels: encapsulation of perylene bisimide dyes and graphene nanosheets. Chemical Science, 2020, 11, 6752-6757.	7.4	19
21	Electrochemical reactivity in nanoscale domains: O2 reduction on a fullerene modified gold surface. Physical Chemistry Chemical Physics, 2005, 7, 1293.	2.8	18
22	Methanol oxidation on a Pt(111)â€“OH/O surface. Physical Chemistry Chemical Physics, 2008, 10, 2175.	2.8	17
23	An in-situ surface electrochemistry approach toward whole-cell studies: Charge transfer between Geobacter sulfurreducens and electrified metal/electrolyte interfaces through linker molecules. Electrochimica Acta, 2013, 112, 933-942.	5.2	17
24	Probing the Electrocatalytic Oxygen Reduction Reaction Reactivity of Immobilized Multicopper Oxidase CueO. Journal of Physical Chemistry C, 2014, 118, 15754-15765.	3.1	17
25	Solution Phase Mass Synthesis of 2D Atomic Layer with Hexagonal Boron Network. Journal of the American Chemical Society, 2019, 141, 12984-12988.	13.7	14
26	An in situ surface electrochemistry approach towards whole-cell studies: the structure and reactivity of a Geobacter sulfurreducens submonolayer on electrified metal/electrolyte interfaces. Physical Chemistry Chemical Physics, 2014, 16, 22229-22236.	2.8	12
27	ATR-SEIRAS study of CO adsorption and oxidation on Rh modified Au(111-25 nm) film electrodes in 0.1 M H2SO4. Electrochimica Acta, 2015, 176, 1202-1213.	5.2	11
28	Quantum Materials Exploration by Sequential Screening Technique of Heteroatomicity. Journal of the American Chemical Society, 2020, 142, 19078-19084.	13.7	11
29	Preparation and characterization of ultra-flat single crystal surfaces of Pd(1 1 1) and Au(1 1 1) by an in situ interference optical microscopy. Journal of Electroanalytical Chemistry, 2010, 649, 257-260.	3.8	10
30	ATR-SEIRAS study of formic acid adsorption and oxidation on Rh modified Au(111â€“25 nm) film electrodes in 0.1 M H2SO4. Journal of Electroanalytical Chemistry, 2017, 793, 70-76.	3.8	10
31	Decoupling surface reconstruction and perchlorate adsorption on Au(111). Electrochemistry Communications, 2014, 44, 31-33.	4.7	9
32	Nanomaterials design for super-degenerate electronic state beyond the limit of geometrical symmetry. Nature Communications, 2018, 9, 3758.	12.8	9
33	Structural Effect of Polyvinylpyrrolidone-stabilized Au Nanostars for SERS Application. Chemistry Letters, 2021, 50, 248-251.	1.3	4
34	Development of Highly Sensitive Raman Spectroscopy for Subnano and Single-Atom Detection. Molecules, 2021, 26, 5099.	3.8	2
35	Nanosphere Formation of Ï€-Conjugated Dendrimers by Simple Precipitation Method. Chemistry Letters, 2019, 48, 1240-1243.	1.3	1
36	Tin oxide subnanoparticles: a precisely-controlled synthesis, subnano-detection for their detailed characterisation and applications. Dalton Transactions, 2020, 49, 13512-13518.	3.3	1