

# Akiyoshi Kuzume

## List of Publications by Year in descending order

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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	Structural Effect of Polyvinylpyrrolidone-stabilized Au Nanostars for SERS Application. Chemistry Letters, 2021, 50, 248-251.	1.3	4
2	Development of Highly Sensitive Raman Spectroscopy for Subnano and Single-Atom Detection. Molecules, 2021, 26, 5099.	3.8	2
3	Tin oxide subnanoparticles: a precisely-controlled synthesis, subnano-detection for their detailed characterisation and applications. Dalton Transactions, 2020, 49, 13512-13518.	3.3	1
4	Quantum Materials Exploration by Sequential Screening Technique of Heteroatomicity. Journal of the American Chemical Society, 2020, 142, 19078-19084.	13.7	11
5	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
6	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
7	Periodicity of molecular clusters based on symmetry-adapted orbital model. Nature Communications, 2019, 10, 3727.	12.8	25
8	Nanosphere Formation of $\beta$ -Conjugated Dendrimers by Simple Precipitation Method. Chemistry Letters, 2019, 48, 1240-1243.	1.3	1
9	Ultrahigh sensitive Raman spectroscopy for subnanoscience: Direct observation of tin oxide clusters. Science Advances, 2019, 5, eaax6455.	10.3	20
10	Probing the chemical state of tin oxide NP catalysts during CO <sub>2</sub> electroreduction: A complementary operando approach. Nano Energy, 2018, 53, 828-840.	16.0	71
11	Nanomaterials design for super-degenerate electronic state beyond the limit of geometrical symmetry. Nature Communications, 2018, 9, 3758.	12.8	9
12	Stable anchoring chemistry for room temperature charge transport through graphite-molecule contacts. Science Advances, 2017, 3, e1602297.	10.3	23
13	Exact mass analysis of sulfur clusters upon encapsulation by a polyaromatic capsular matrix. Nature Communications, 2017, 8, 749.	12.8	33
14	ATR-SEIRAS study of formic acid adsorption and oxidation on Rh modified Au(111) (25 nm) film electrodes in 0.1 M H <sub>2</sub> SO <sub>4</sub> . Journal of Electroanalytical Chemistry, 2017, 793, 70-76.	3.8	10
15	The promoting effect of water on the electroreduction of CO <sub>2</sub> in acetonitrile. Electrochimica Acta, 2016, 189, 38-44.	5.2	57
16	Electrochemical CO <sub>2</sub> Reduction – A Critical View on Fundamentals, Materials and Applications. Chimia, 2015, 69, 769.	0.6	130
17	Exploitation of desilylation chemistry in tailor-made functionalization on diverse surfaces. Nature Communications, 2015, 6, 6403.	12.8	29
18	A severe reduction in the cytochrome <i>c</i> content of <i>Geobacter sulfurreducens</i> eliminates its capacity for extracellular electron transfer. Environmental Microbiology Reports, 2015, 7, 219-226.	2.4	65

#	ARTICLE	IF	CITATIONS
19	Layer-by-layer grown scalable redox-active ruthenium-based molecular multilayer thin films for electrochemical applications and beyond. <i>Nanoscale</i> , 2015, 7, 17685-17692.	5.6	32
20	Monitoring the Chemical State of Catalysts for CO <sub>2</sub> Electroreduction: An In Operando Study. <i>ACS Catalysis</i> , 2015, 5, 7498-7502.	11.2	243
21	ATR-SEIRAS study of CO adsorption and oxidation on Rh modified Au(111-25 nm) film electrodes in 0.1 M H <sub>2</sub> SO <sub>4</sub> . <i>Electrochimica Acta</i> , 2015, 176, 1202-1213.	5.2	11
22	Decoupling surface reconstruction and perchlorate adsorption on Au(111). <i>Electrochemistry Communications</i> , 2014, 44, 31-33.	4.7	9
23	An in situ surface electrochemistry approach towards whole-cell studies: the structure and reactivity of a <i>Geobacter sulfurreducens</i> submonolayer on electrified metal/electrolyte interfaces. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 22229-22236.	2.8	12
24	Reconstruction and electrochemical oxidation of Au(110) surface in 0.1 M H <sub>2</sub> SO <sub>4</sub> . <i>Electrochimica Acta</i> , 2014, 139, 281-288.	5.2	21
25	Probing the Electrocatalytic Oxygen Reduction Reaction Reactivity of Immobilized Multicopper Oxidase CueO. <i>Journal of Physical Chemistry C</i> , 2014, 118, 15754-15765.	3.1	17
26	CO Oxidation on Pt(100): New Insights based on Combined Voltammetric, Microscopic and Spectroscopic Experiments. <i>Electrochimica Acta</i> , 2014, 133, 132-145.	5.2	23
27	Characterisation of PAMPS- <i>g</i> -PSS pore-filling membrane for direct methanol fuel cell. <i>Journal of Membrane Science</i> , 2013, 446, 92-98.	8.2	20
28	Electro-oxidation of Au(111) in contact with aqueous electrolytes: New insight from in situ vibration spectroscopy. <i>Electrochimica Acta</i> , 2013, 112, 853-863.	5.2	58
29	An in-situ surface electrochemistry approach toward whole-cell studies: Charge transfer between <i>Geobacter sulfurreducens</i> and electrified metal/electrolyte interfaces through linker molecules. <i>Electrochimica Acta</i> , 2013, 112, 933-942.	5.2	17
30	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. <i>Journal of Electroanalytical Chemistry</i> , 2010, 649, 257-260.	3.8	10
31	Ethylene adsorption and oxidation on Pt(h k l) in acidic media. <i>Surface Science</i> , 2008, 602, 84-94.	1.9	25
32	Methanol oxidation on a Pt(111)-OH/O surface. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 2175.	2.8	17
33	Oxygen reduction on stepped platinum surfaces in acidic media. <i>Journal of Electroanalytical Chemistry</i> , 2007, 599, 333-343.	3.8	330
34	Electrochemical reactivity in nanoscale domains: O <sub>2</sub> reduction on a fullerene modified gold surface. <i>Physical Chemistry Chemical Physics</i> , 2005, 7, 1293.	2.8	18
35	Copper underpotential deposition at high index single crystal surfaces of Au. <i>Journal of Electroanalytical Chemistry</i> , 2004, 570, 157-161.	3.8	31
36	Fullerene monolayers adsorbed on high index gold single crystal surfaces. <i>Physical Chemistry Chemical Physics</i> , 2004, 6, 619.	2.8	25