

# Masahiro Shibuta

## List of Publications by Year in descending order

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papers

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citations

516215

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docs citations

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times ranked

639  
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis and Characterization of Metal-Encapsulating Si <sub>16</sub> Cage Superatoms. <i>Accounts of Chemical Research</i> , 2018, 51, 1735-1745.	7.6	63
2	Chemical Characterization of an Alkali-Like Superatom Consisting of a Ta-Encapsulating Si <sub>16</sub> Cage. <i>Journal of the American Chemical Society</i> , 2015, 137, 14015-14018.	6.6	59
3	Development of Integrated Dry-Wet Synthesis Method for Metal Encapsulating Silicon Cage Superatoms of M@Si <sub>16</sub> (M = Ti and Ta). <i>Journal of Physical Chemistry C</i> , 2017, 121, 20507-20516.	1.5	57
4	Size and Structure Dependence of Electronic States in Thiolate-Protected Gold Nanoclusters of Au <sub>25</sub> (SR) <sub>18</sub> , Au <sub>38</sub> (SR) <sub>24</sub> , and Au <sub>144</sub> (SR) <sub>60</sub> . <i>Journal of Physical Chemistry C</i> , 2013, 117, 3674-3679.	1.5	53
5	Novel Growth of Naphthalene Overlayer on Cu(111) Studied by STM, LEED, and 2PPE. <i>Journal of Physical Chemistry C</i> , 2010, 114, 13334-13339.	1.5	34
6	Charge Transfer Complexation of Ta-Encapsulating Ta@Si <sub>16</sub> Superatom with C <sub>60</sub> . <i>Journal of Physical Chemistry C</i> , 2016, 120, 15265-15271.	1.5	34
7	Molecular-Scale and Wide-Energy-Range Tunneling Spectroscopy on Self-Assembled Monolayers of Alkanethiol Molecules. <i>ACS Nano</i> , 2012, 6, 8728-8734.	7.3	33
8	Resonant effects on two-photon photoemission spectroscopy: Linewidths and intensities of occupied and unoccupied features for lead phthalocyanine films on graphite. <i>Physical Review B</i> , 2010, 81, .	1.1	31
9	Charge Separation at the Molecular Monolayer Surface: Observation and Control of the Dynamics. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 981-985.	2.1	27
10	Direct observation of photocarrier electron dynamics in C60 films on graphite by time-resolved two-photon photoemission. <i>Scientific Reports</i> , 2016, 6, 35853.	1.6	25
11	Imaging and Characterizing Long-Range Surface Plasmon Polaritons Propagating in a Submillimeter Scale by Two-Color Two-Photon Photoelectron Emission Microscopy. <i>Plasmonics</i> , 2013, 8, 1411-1415.	1.8	22
12	Spectroscopic Investigation of Unoccupied States in Nano- and Macroscopic Scale: Naphthalene Overlayers on Highly Oriented Pyrolytic Graphite Studied by Combination of Scanning Tunneling Microscopy and Two-Photon Photoemission. <i>Journal of Physical Chemistry C</i> , 2014, 118, 1035-1041.	1.5	18
13	Angle- and Time-Resolved Two-Photon Photoemission Spectroscopy for Unoccupied Levels of Lead Phthalocyanine Film. <i>Journal of Physical Chemistry C</i> , 2011, 115, 19269-19273.	1.5	17
14	Momentum-resolved electron dynamics of image-potential states on Cu and Ag surfaces. <i>Physical Review B</i> , 2012, 85, .	1.1	17
15	Photoexcited State Confinement in Two-Dimensional Crystalline Anthracene Monolayer at Room Temperature. <i>ACS Nano</i> , 2017, 11, 4307-4314.	7.3	17
16	Oxidative reactivity of alkali-like superatoms of group 5 metal-encapsulating Si <sub>16</sub> cage nanoclusters. <i>Communications Chemistry</i> , 2018, 1, .	2.0	17
17	Confined Hot Electron Relaxation at the Molecular Heterointerface of the Size-Selected Plasmonic Noble Metal Nanocluster and Layered C <sub>60</sub> . <i>ACS Nano</i> , 2021, 15, 1199-1209.	7.3	17
18	Nitric oxide oxidation of a Ta encapsulating Si cage nanocluster superatom (Ta@Si <sub>16</sub> ) deposited on an organic substrate; a Si cage collapse indicator. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 26273-26279.	1.3	16

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19	Vibrationally resolved two-photon photoemission spectroscopy for lead phthalocyanine film on graphite. <i>Physical Review B</i> , 2009, 80, .	1.1	15
20	Electronic States of Alkanethiolate Self-Assembled Monolayers on Au(111) Studied by Two-Photon Photoemission Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2012, 116, 13623-13628.	1.5	15
21	Imaging and spectromicroscopy of photocarrier electron dynamics in C60 fullerene thin films. <i>Applied Physics Letters</i> , 2016, 109, .	1.5	13
22	Two-photon photoelectron emission microscopy for surface plasmon polaritons at the Au(111) surface decorated with alkanethiolate self-assembled monolayers. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 13455-13461.	1.3	13
23	Al <sub>13</sub> <sup>+</sup> and B@Al <sub>12</sub> <sup>+</sup> superatoms on a molecularly decorated substrate. <i>Nature Communications</i> , 2022, 13, 1336.	5.8	13
24	Probing of an Adsorbate-Specific Excited State on an Organic Insulating Surface by Two-Photon Photoemission Spectroscopy. <i>Journal of the American Chemical Society</i> , 2014, 136, 1825-1831.	6.6	11
25	Excitation and Relaxation Dynamics of Two-Dimensional Photoexcited Electrons on Alkanethiolate Self-Assembled Monolayers. <i>Journal of Physical Chemistry C</i> , 2015, 119, 22945-22953.	1.5	11
26	Visualization of Surface Plasmons Propagating at the Buried Organic/Metal Interface with Silver Nanocluster Sensitizers. <i>ACS Nano</i> , 2020, 14, 2044-2052.	7.3	10
27	Excited electron dynamics at ferrocene-terminated self-assembled monolayers on Au(111): Lengthened lifetime of image potential state. <i>Chemical Physics Letters</i> , 2013, 561-562, 131-136.	1.2	9
28	Photoexcited Electron-transfer Properties of C <sub>60</sub> Film on Graphite and on Au(111) Interfaces Studied by Two-photon Photoemission Spectroscopy. <i>Chemistry Letters</i> , 2017, 46, 1528-1531.	0.7	9
29	Highly Dispersive Nearly Free Electron Bands at a 2D-Assembled C <sub>60</sub> Monolayer. <i>Journal of Physical Chemistry C</i> , 2020, 124, 734-741.	1.5	8
30	One- and two-photon photoemission microspectroscopy for organic films. , 2006, , .		7
31	Interfacial Oxidation of Ta-Encapsulating Si <sub>16</sub> Cage Superatoms (Ta@Si <sub>16</sub> ) on Strontium Titanate Substrates. <i>Journal of Physical Chemistry C</i> , 2020, 124, 28108-28115.	1.5	7
32	Highly Ordered Self-Assembled Monolayers of Carboxy- and Ester-Terminated Alkanethiols on Au(111): Infrared Absorption and Hyperthermal-Deposition Experiments with Cr(benzene) <sub>2</sub> Ions. <i>Journal of Physical Chemistry C</i> , 2017, 121, 6736-6747.	1.5	6
33	Liquid-phase catalysis by single-size palladium nanoclusters supported on strontium titanate: size-specific catalysts for Suzuki-Miyaura coupling. <i>Catalysis Science and Technology</i> , 2018, 8, 5827-5834.	2.1	6
34	Electrical Conduction of Superatom Thin Films Composed of Group-V-Metal-Encapsulating Silicon-Cage Nanoclusters. <i>Journal of Physical Chemistry C</i> , 2021, 125, 18420-18428.	1.5	6
35	Probing buried organic-organic and metal-organic heterointerfaces by hard x-ray photoelectron spectroscopy. <i>Applied Physics Letters</i> , 2012, 101, 221603.	1.5	5
36	Temperature effects on the formation and the relaxation dynamics of metal-organic interface states. <i>Physical Review B</i> , 2020, 102, .	1.1	5

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37	Molecularly Designed Cluster-Surface Interaction for Halogen-like and Alkali-like Metal-Encapsulating Silicon Cage Superatoms on n- and p-Type Organic Substrates. <i>Journal of Physical Chemistry C</i> , 2022, 126, 10889-10899.	1.5	5
38	Energy Level Alignment of Organic Molecules with Chemically Modified Alkanethiolate Self-Assembled Monolayers. <i>Journal of Physical Chemistry C</i> , 2017, 121, 27399-27405.	1.5	4
39	Size-Dependent Oxidative Stability of Silicon Nanoclusters Mixed with a Tantalum Atom. <i>Journal of Physical Chemistry C</i> , 2022, 126, 4423-4432.	1.5	3
40	Formation of Highly Ordered Semiconducting Anthracene Monolayer Rigidly Connected to Insulating Alkanethiolate Thin Film. <i>Journal of Physical Chemistry C</i> , 2018, 122, 26080-26087.	1.5	2
41	Fluorescence properties and relaxation processes of Tb <sup>3+</sup> ions in ZnCl <sub>2</sub> -based glasses. <i>Materials Research Bulletin</i> , 2013, 48, 4947-4952.	2.7	1
42	Electronic states of titanyl phthalocyanine films on alkanethiolate self-assembled monolayers probed by two-photon photoemission. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2014, 195, 272-277.	0.8	1
43	Occupied and Unoccupied Levels of Half-Fluorinated and Perfluorinated Rubrene Thin Films Probed by One- and Two-Photon Photoemission. <i>Journal of Physical Chemistry C</i> , 2020, 124, 12409-12416.	1.5	1
44	Electronic States and Excited Electron Dynamics for Alkanethiolate SAM. <i>Hyomen Kagaku</i> , 2014, 35, 432-437.	0.0	0
45	Study on Electron Dynamics at Nanoscale Functional Films. <i>Molecular Science</i> , 2019, 13, A0105.	0.2	0