

# Michio M Matsushita

## List of Publications by Year in descending order

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81  
papers

2,298  
citations

218677

26  
h-index

233421

45  
g-index

82  
all docs

82  
docs citations

82  
times ranked

2806  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrogen-Bonded Organic Ferromagnet. <i>Journal of the American Chemical Society</i> , 1997, 119, 4369-4379.	13.7	172
2	X-ray Magnetic Circular Dichroism of Size-Selected, Thiolated Gold Clusters. <i>Journal of the American Chemical Society</i> , 2006, 128, 12034-12035.	13.7	136
3	Electron Highways into Nanochannels of Covalent Organic Frameworks for High Electrical Conductivity and Energy Storage. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 7661-7665.	8.0	113
4	Spintronics in organic Œ-electronic systems. <i>Journal of Materials Chemistry</i> , 2009, 19, 1738.	6.7	112
5	An organic ferromagnet: Œ-phase crystal of 2-(2,5-dihydroxyphenyl)-4,4,5,5-tetramethyl-4,5-dihydro-1H-imidazolyl-1-oxo-3-oxide (Œ-HQNN). <i>Journal of the Chemical Society Chemical Communications</i> , 1994, , 1723-1724.	2.0	106
6	Intramolecular Exchange Interaction in a Novel Cross-Conjugated Spin System Composed of .pi-Ion Radical and Nitronyl Nitroxide. <i>Journal of the American Chemical Society</i> , 1994, 116, 4523-4524.	13.7	91
7	Multifunctional Dithiadiazolyl Radicals: Fluorescence, Electroluminescence, and Photoconducting Behavior in Pyren-1-yl-dithiadiazolyl. <i>Journal of the American Chemical Society</i> , 2018, 140, 6260-6270.	13.7	75
8	Novel spin-polarized TTF donors affording ground state triplet cation diradicals. <i>Tetrahedron Letters</i> , 1999, 40, 5027-5030.	1.4	62
9	Storage of an electric field for photocurrent generation in ferroelectric-functionalized organic devices. <i>Nature Communications</i> , 2014, 5, 3279.	12.8	61
10	Design and preparation of pyrrole-based spin-polarized donors Electronic supplementary information (ESI) available: cyclic voltammograms for N-PN, Œ <sup>2</sup> -PN, N-TPN, PhNN and TPP. See <a href="http://www.rsc.org/suppdata/jm/b2/b211986b/">http://www.rsc.org/suppdata/jm/b2/b211986b/</a> . <i>Journal of Materials Chemistry</i> , 2003, 13, 1011-1022.	6.7	60
11	Ionic-Liquid Component Dependence of Carrier Injection and Mobility for Electric-Double-Layer Organic Thin-Film Transistors. <i>Journal of Physical Chemistry C</i> , 2012, 116, 5240-5245.	3.1	60
12	Influence of Magnetic Field upon the Conductance of a Unicomponent Crystal of a Tetrathiafulvalene-Based Nitronyl Nitroxide. <i>Journal of the American Chemical Society</i> , 2010, 132, 4528-4529.	13.7	56
13	EPR and Density Functional Studies of Light-Induced Radical Pairs in a Single Crystal of a Hexaarylbiimidazolyl Derivative. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 580-582.	13.8	52
14	Negative Magneto-resistance Observed on an Ion-radical Salt of a TTF-based Spin-polarized Donor. <i>Chemistry Letters</i> , 2007, 36, 110-111.	1.3	48
15	Electrochemical and Electrochromic Properties of Octathio[8]circulene Thin Films in Ionic Liquids. <i>Journal of the American Chemical Society</i> , 2008, 130, 15790-15791.	13.7	47
16	Utilizing Photocurrent Transients for Dithiolene-Based Photodetection: Stepwise Improvements at Communications Relevant Wavelengths. <i>Journal of the American Chemical Society</i> , 2012, 134, 12742-12750.	13.7	43
17	Cotunneling current affected by spin-polarized wire molecules in networked gold nanoparticles. <i>Physical Review B</i> , 2008, 77, .	3.2	41
18	Dual-gate field-effect transistors of octathio[8]circulene thin-films with ionic liquid and SiO <sub>2</sub> gate dielectrics. <i>Applied Physics Letters</i> , 2010, 97, .	3.3	40

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19	Organic optoelectronic interfaces with anomalous transient photocurrent. <i>Journal of Materials Chemistry C</i> , 2015, 3, 5122-5135.	5.5	40
20	Electron transport in networks of gold nanoparticles connected by oligothiophene molecular wires. <i>Journal of Materials Chemistry</i> , 2006, 16, 3459.	6.7	37
21	Discovery of the $K_4$ Structure Formed by a Triangular $\dot{\text{C}}$ Radical Anion. <i>Journal of the American Chemical Society</i> , 2015, 137, 7612-7615.	13.7	37
22	Transformation between Monovalent and Divalent Ionic Solids: An Ionic(I) $\leftrightarrow$ Ionic(II) Phase Transition in a Biferrocene $\dot{\text{C}}$ F1TCNQ Charge-Transfer Complex. <i>Journal of the Physical Society of Japan</i> , 2005, 74, 2214-2216.	1.6	33
23	Crystal Structure, Spin Polarization, Solid-State Electrochemistry, and High n-Type Carrier Mobility of a Paramagnetic Semiconductor: Vanadyl Tetrakis(thiadiazole)porphyrazine. <i>Inorganic Chemistry</i> , 2012, 51, 456-462.	4.0	32
24	Switching of Transfer Characteristics of an Organic Field-Effect Transistor by Phase Transitions: Sensitive Response to Molecular Dynamics and Charge Fluctuation. <i>Chemistry of Materials</i> , 2015, 27, 4441-4449.	6.7	32
25	Structural, Magnetic, and Electronic Properties of Phenolic Oxime Complexes of Cu and Ni. <i>Inorganic Chemistry</i> , 2011, 50, 12867-12876.	4.0	30
26	A complementary organic inverter of porphyrazine thin films: low-voltage operation using ionic liquid gate dielectrics. <i>Chemical Communications</i> , 2011, 47, 5837.	4.1	29
27	Synthesis, optical properties and charge transport characteristics of a series of novel thiophene-fused phenazine derivatives. <i>Journal of Materials Chemistry C</i> , 2013, 1, 3467.	5.5	29
28	Photoconductivity and FET performance of an n-type porphyrazine semiconductor, tetrakis(thiadiazole)porphyrazine. <i>Organic Electronics</i> , 2011, 12, 239-243.	2.6	28
29	Planar Ni(ii), Cu(ii) and Co(ii) tetraaza[14]annulenes: structural, electronic and magnetic properties and application to field effect transistors. <i>Journal of Materials Chemistry</i> , 2012, 22, 17967.	6.7	27
30	Electrochemical field-effect transistors of octathio[8]circulene robust thin films with ionic liquids. <i>Chemical Physics Letters</i> , 2009, 483, 81-83.	2.6	26
31	Formation of Self-Assembled Monolayer of Phenylthiol Carrying Nitronyl Nitroxide on Gold Surface. <i>Chemistry Letters</i> , 2002, 31, 596-597.	1.3	25
32	A novel TTF-based donor carrying four nitronyl nitroxides. <i>Tetrahedron Letters</i> , 2003, 44, 4415-4418.	1.4	24
33	Preparation and Characterization of Gold Nano-Particles Chemisorbed by $\dot{\text{C}}$ -Radical Thiols. <i>Chemistry Letters</i> , 2002, 31, 1030-1031.	1.3	23
34	Current-Induced Low-Resistance State and Its Crystal Structure of a TTF-Based Dimeric Donor Salt. <i>Journal of the American Chemical Society</i> , 2005, 127, 12450-12451.	13.7	23
35	3D Spin-Liquid State in an Organic Hyperkagome Lattice of Mott Dimers. <i>Physical Review Letters</i> , 2017, 119, 057201.	7.8	23
36	A new metal $\dot{\text{C}}$ organic hybrid material with intrinsic resistance-based bistability: monitoring in situ room temperature switching behavior. <i>Journal of Materials Chemistry C</i> , 2014, 2, 399-404.	5.5	21

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37	In Situ Real-Time Measurements for Ambipolar Channel Formation Processes in Organic Double-Layer Field-Effect Transistors of CuPc and $\text{F}_{16}\text{CuPc}$ . <i>Journal of Physical Chemistry C</i> , 2018, 122, 26054-26060.	3.1	21
38	Controlling Co-tunneling Currents in Nanoparticle Networks Using Spin-Polarized Wire Molecules. <i>Small</i> , 2008, 4, 471-475.	10.0	20
39	Synthesis and properties of TSF-based spin-polarized donor. <i>Polyhedron</i> , 2009, 28, 1996-2000.	2.2	20
40	Electrodeposition as a superior route to a thin film molecular semiconductor. <i>Chemical Science</i> , 2011, 2, 316-320.	7.4	18
41	Highly efficient organic optoelectronic conversion induced by electric double layers in ionic liquids. <i>Applied Physics Letters</i> , 2012, 100, 163304.	3.3	18
42	Ambipolar Carrier Injections Governed by Electrochemical Potentials of Ionic Liquids in Electric-Double-Layer Thin-Film Transistors of Lead- and Titanyl-Phthalocyanine. <i>Journal of Physical Chemistry C</i> , 2013, 117, 5552-5557.	3.1	18
43	Electron-Transfer Processes in Highly-Correlated Electron Systems of Thiazyl Radicals. <i>Bulletin of the Chemical Society of Japan</i> , 2014, 87, 234-249.	3.2	18
44	High Ambipolar Mobility in a Neutral Radical Gold Dithiolene Complex. <i>Advanced Functional Materials</i> , 2019, 29, 1904181.	14.9	17
45	Construction of a network structure composed of gold nanoparticles and spin-polarized molecular wires and its conducting and magnetic properties. <i>Polyhedron</i> , 2005, 24, 2263-2268.	2.2	15
46	A field-effect transistor consists of spin-polarized TTF-based donor. <i>Polyhedron</i> , 2005, 24, 2870-2875.	2.2	15
47	Electric double layers allow for opaque electrodes in high performance organic optoelectronic devices. <i>Applied Physics Letters</i> , 2012, 101, .	3.3	14
48	Photocurrent Generation in Organic Photodetectors with Tailor-Made Active Layers Fabricated by Layer-by-Layer Deposition. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 7049-7053.	8.0	14
49	Charge transport in various dimensions of small networks composed of gold nanoparticles and terthiophene wire-molecules. <i>Applied Physics Letters</i> , 2011, 98, 263114.	3.3	13
50	Thiadiazole dioxide-fused picene: acceptor ability, anion radical formation, and n-type charge transport characteristics. <i>Chemical Communications</i> , 2014, 50, 4178.	4.1	13
51	Superperiodic conductance in a molecularly wired double-dot system self-assembled in a nanogap electrode. <i>Journal of Applied Physics</i> , 2010, 108, .	2.5	11
52	Factors Affecting the Stability and Performance of Ionic Liquid-Based Planar Transient Photodetectors. <i>Langmuir</i> , 2015, 31, 5235-5243.	3.5	11
53	Ionic liquid thin layer-induced memory effects in organic field-effect transistors. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 18823-18829.	2.8	11
54	Ferromagnetic Spin Ordering Along Intermolecular Hydrogen Bonds of a Hydroquinone Derivative Carrying a Nitronyl Nitroxide. <i>Molecular Crystals and Liquid Crystals</i> , 1996, 279, 139-144.	0.3	10

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55	Giant Magnetoresistance in a Molecular Thin Film as an Intrinsic Property. <i>Advanced Functional Materials</i> , 2014, 24, 2383-2388.	14.9	10
56	Electrochemical deposition of highly-conducting metal dithiolene films. <i>Dalton Transactions</i> , 2016, 45, 9363-9368.	3.3	10
57	Theoretical Studies of Magnetic Interactions in $\pi$ - $\pi$ -Dihydroxyphenyl Nitronyl Nitroxide Crystal. <i>Molecular Crystals and Liquid Crystals</i> , 1997, 306, 151-160.	0.3	9
58	Photoinduced Electron Transfer from Nitroxide Free Radicals to the Triplet State of C60. <i>Journal of Physical Chemistry A</i> , 2003, 107, 2815-2820.	2.5	9
59	Molecular and thin film properties of cobalt half-sandwich compounds for optoelectronic application. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 6768-6776.	2.8	9
60	Ground State Spin Multiplicity of Cation Diradicals Derived from Pyrroles Carrying Nitronyl Nitroxide. <i>Molecular Crystals and Liquid Crystals</i> , 1997, 306, 81-88.	0.3	8
61	Effect of photoinduced charge displacement on organic optoelectronic conversion. <i>Physical Review B</i> , 2011, 84, .	3.2	7
62	Negative differential resistance in the Peierls insulating phases of TTF-TCNQ. <i>Physical Review B</i> , 2017, 96, .	3.2	7
63	Electric and Thermosensitive Properties of a Charge-Transfer Complex Exhibiting a Minor Valence Instability Transition. <i>Crystal Growth and Design</i> , 2020, 20, 4758-4763.	3.0	7
64	Noncatalytic, solvent-free thermal formation of cyclic trimers using 1,6-bis(acyloxymethyl)hexa-2,4-diyne derivatives. <i>Tetrahedron Letters</i> , 2004, 45, 2671-2675.	1.4	6
65	Chemical control of the monovalent $\rightarrow$ divalent electron-transfer phase transition in biferrocenium $\rightarrow$ TCNQ salts. <i>Chemical Communications</i> , 2014, 50, 5473-5475.	4.1	6
66	Influence of Air Exposure on Photocarrier Generation in Amorphous and Phase II Thin Films of Titanyl Phthalocyanine. <i>Journal of Physical Chemistry C</i> , 2018, 122, 7731-7736.	3.1	5
67	Chemical potentials of electric double layers at metal $\rightarrow$ electrolyte interfaces: dependence on electrolyte concentration and electrode materials, and application to field-effect transistors. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 12395-12402.	2.8	4
68	Dielectric properties associated with structural phase transitions observed in tetramethylammonium salt of o-phenylenebis(squaric acid). <i>Chemical Physics</i> , 2006, 322, 392-398.	1.9	3
69	Association-mediated chromism of amphiphilic triphenyl-6-oxoverdazyl. <i>New Journal of Chemistry</i> , 2008, 32, 2201.	2.8	3
70	Energy levels of metal porphyrins upon molecular alignment during layer-by-layer electrostatic assembly: scanning tunneling spectroscopy vis- $\bar{A}$ -vis optical spectroscopy. <i>RSC Advances</i> , 2016, 6, 47410-47417.	3.6	3
71	Rate-determining process in MISIM photocells for optoelectronic conversion using photo-induced pure polarization current without carrier transfer across interfaces. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 13440-13445.	2.8	3
72	Stabilization of Interfacial Polarization and Induction of Polarization Hysteresis in Organic MISIM Devices. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 31928-31933.	8.0	3

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73	Bis(tetra-n-butylammonium) bis(1/4-1,2-dicyanoethene-1,2-dithiolato- $\lambda^3$ S, $\lambda^2$ )bis[(1,2-dicyanoethene-1,2-dithiolato- $\lambda^2$ S, $\lambda^2$ )cobalt(III)]. Acta Crystallographica Section C: Crystal Structure Communications, 2002, 58, m431-m433.		2
74	Polyhedral building block with specific facial interaction for conducting supramolecular self-assembly. Journal of Materials Chemistry, 2004, 14, 2842.	6.7	2
75	A programmable single-component diode based on an ambipolar organic field-effect transistor (OFET). Pure and Applied Chemistry, 2012, 84, 979-989.	1.9	2
76	Ambipolar Transport in Phase-Separated Thin Films of p- and n-Type Vanadylporphyrazines with Two-Dimensional Percolation. Journal of Physical Chemistry C, 2014, 118, 14142-14149.	3.1	2
77	Transport Characteristics of the Organic Field-Effect Transistors Based on Charge Transfer Complex as Semiconductors. Journal of Nanoscience and Nanotechnology, 2016, 16, 3355-3359.	0.9	2
78	Giant negative magnetoresistance in Ni(quinoline-8-selenoate) <sub>2</sub> . Physical Chemistry Chemical Physics, 2018, 20, 514-519.	2.8	2
79	Theoretical Studies of Magnetic Interactions in $\lambda^2$ , $\lambda^2$ -Dihydroxyphenyl Nitronyl Nitroxide Crystal. Molecular Crystals and Liquid Crystals, 1999, 335, 633-642.	0.3	1
80	Cycle of charge carrier states with formation and extinction of a floating gate in an ambipolar tetracyanoquaterthienoquinoid-based field-effect transistor. Chemical Physics Letters, 2017, 671, 71-77.	2.6	1
81	Construction of Coexisting Systems of Magnetism and Conductivity Based on Organic Radical Spins. Molecular Science, 2012, 6, A0049.	0.2	1