Michio M Matsushita

List of Publications by Year
in descending order

81	2,298	218677	233421
papers	citations	26 h-index	45 g-index

82	82	82	2806
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Stabilization of Interfacial Polarization and Induction of Polarization Hysteresis in Organic MISIM Devices. ACS Applied Materials & Interfaces, 2021, 13, 31928-31933.	8.0	3
2	Chemical potentials of electric double layers at metalâ€“electrolyte interfaces: dependence on electrolyte concentration and electrode materials, and application to field-effect transistors. Physical Chemistry Chemical Physics, 2020, 22, 12395-12402.	2.8	4
3	Electric and Thermosalient Properties of a Charge-Transfer Complex Exhibiting a Minor Valence Instability Transition. Crystal Growth and Design, 2020, 20, 4758-4763.	3.0	7
4	High Ambipolar Mobility in a Neutral Radical Gold Dithiolene Complex. Advanced Functional Materials, 2019, 29, 1904181.	14.9	17
5	Rate-determining process in MISIM photocells for optoelectronic conversion using photo-induced pure polarization current without carrier transfer across interfaces. Physical Chemistry Chemical Physics, 2019, 21, 13440-13445.	2.8	3
6	Electron Highways into Nanochannels of Covalent Organic Frameworks for High Electrical Conductivity and Energy Storage. ACS Applied Materials & Interfaces, 2019, 11, 7661-7665.	8.0	113
7	Ionic liquid thin layer-induced memory effects in organic field-effect transistors. Physical Chemistry Chemical Physics, 2019, 21, 18823-18829.	2.8	11
8	Multifunctional Dithiadiazolyl Radicals: Fluorescence, Electroluminescence, and Photoconducting Behavior in Pyren-1â€²-yl-dithiadiazolyl. Journal of the American Chemical Society, 2018, 140, 6260-6270.	13.7	75
9	Influence of Air Exposure on Photocarrier Generation in Amorphous and Phase II Thin Films of Titanyl Phthalocyanine. Journal of Physical Chemistry C, 2018, 122, 7731-7736.	3.1	5
10	Giant negative magnetoresistance in Ni(quinoline-8-selenoate)₂. Physical Chemistry Chemical Physics, 2018, 20, 514-519.	2.8	2
11	In Situ Real-Time Measurements for Ambipolar Channel Formation Processes in Organic Double-Layer Field-Effect Transistors of CuPc and F₁₆CuPc. Journal of Physical Chemistry C, 2018, 122, 26054-26060.	3.1	21
12	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
13	Molecular and thin film properties of cobalt half-sandwich compounds for optoelectronic application. Physical Chemistry Chemical Physics, 2017, 19, 6768-6776.	2.8	9
14	Negative differential resistance in the Peierls insulating phases of TTF-TCNQ. Physical Review B, 2017, 96, .	3.2	7
15	3D Spin-Liquid State in an Organic Hyperkagome Lattice of Mott Dimers. Physical Review Letters, 2017, 119, 057201.	7.8	23
16	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
17	Electrochemical deposition of highly-conducting metal dithiolene films. Dalton Transactions, 2016, 45, 9363-9368.	3.3	10
18	Energy levels of metal porphyrins upon molecular alignment during layer-by-layer electrostatic assembly: scanning tunneling spectroscopy vis-Ã-vis optical spectroscopy. RSC Advances, 2016, 6, 47410-47417.	3.6	3

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19	Switching of Transfer Characteristics of an Organic Field-Effect Transistor by Phase Transitions: Sensitive Response to Molecular Dynamics and Charge Fluctuation. Chemistry of Materials, 2015, 27, 4441-4449.	6.7	32
20	Discovery of the K₄ Structure Formed by a Triangular ÏЄ Radical Anion. Journal of the American Chemical Society, 2015, 137, 7612-7615.	13.7	37
21	Factors Affecting the Stability and Performance of Ionic Liquid-Based Planar Transient Photodetectors. Langmuir, 2015, 31, 5235-5243.	3.5	11
22	Organic optoelectronic interfaces with anomalous transient photocurrent. Journal of Materials Chemistry C, 2015, 3, 5122-5135.	5.5	40
23	Photocurrent Generation in Organic Photodetectors with Tailor-Made Active Layers Fabricated by Layer-by-Layer Deposition. ACS Applied Materials & Interfaces, 2015, 7, 7049-7053.	8.0	14
24	Storage of an electric field for photocurrent generation in ferroelectric-functionalized organic devices. Nature Communications, 2014, 5, 3279.	12.8	61
25	Giant Magnetoresistance in a Molecular Thin Film as an Intrinsic Property. Advanced Functional Materials, 2014, 24, 2383-2388.	14.9	10
26	A new metalâЄ“organic hybrid material with intrinsic resistance-based bistability: monitoring in situ room temperature switching behavior. Journal of Materials Chemistry C, 2014, 2, 399-404.	5.5	21
27	Chemical control of the monovalentâЄ“divalent electron-transfer phase transition in biferroceniumâЄ“TCNQ salts. Chemical Communications, 2014, 50, 5473-5475.	4.1	6
28	Thiadiazole dioxide-fused picene: acceptor ability, anion radical formation, and n-type charge transport characteristics. Chemical Communications, 2014, 50, 4178.	4.1	13
29	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
30	Electron-Transfer Processes in Highly-Correlated Electron Systems of Thiazyl Radicals. Bulletin of the Chemical Society of Japan, 2014, 87, 234-249.	3.2	18
31	Ambipolar Carrier Injections Governed by Electrochemical Potentials of Ionic Liquids in Electric-Double-Layer Thin-Film Transistors of Lead- and Titanyl-Phthalocyanine. Journal of Physical Chemistry C, 2013, 117, 5552-5557.	3.1	18
32	Synthesis, optical properties and charge transport characteristics of a series of novel thiophene-fused phenazine derivatives. Journal of Materials Chemistry C, 2013, 1, 3467.	5.5	29
33	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
34	Electric double layers allow for opaque electrodes in high performance organic optoelectronic devices. Applied Physics Letters, 2012, 101, .	3.3	14
35	Highly efficient organic optoelectronic conversion induced by electric double layers in ionic liquids. Applied Physics Letters, 2012, 100, 163304.	3.3	18
36	Ionic-Liquid Component Dependence of Carrier Injection and Mobility for Electric-Double-Layer Organic Thin-Film Transistors. Journal of Physical Chemistry C, 2012, 116, 5240-5245.	3.1	60

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37	Planar Ni(ii), Cu(ii) and Co(ii) tetraaza[14]annulenes: structural, electronic and magnetic properties and application to field effect transistors. Journal of Materials Chemistry, 2012, 22, 17967.	6.7	27
38	Crystal Structure, Spin Polarization, Solid-State Electrochemistry, and High n-Type Carrier Mobility of a Paramagnetic Semiconductor: Vanadyl Tetrakis(thiadiazole)porphyrazine. Inorganic Chemistry, 2012, 51, 456-462.	4.0	32
39	Utilizing Photocurrent Transients for Dithiolene-Based Photodetection: Stepwise Improvements at Communications Relevant Wavelengths. Journal of the American Chemical Society, 2012, 134, 12742-12750.	13.7	43
40	Construction of Coexisting Systems of Magnetism and Conductivity Based on Organic Radical Spins. Molecular Science, 2012, 6, A0049.	0.2	1
41	Electrodeposition as a superior route to a thin film molecular semiconductor. Chemical Science, 2011, 2, 316-320.	7.4	18
42	A complementary organic inverter of porphyrazine thin films: low-voltage operation using ionic liquid gate dielectrics. Chemical Communications, 2011, 47, 5837.	4.1	29
43	Charge transport in various dimensions of small networks composed of gold nanoparticles and terthiophene wire-molecules. Applied Physics Letters, 2011, 98, 263114.	3.3	13
44	Structural, Magnetic, and Electronic Properties of Phenolic Oxime Complexes of Cu and Ni. Inorganic Chemistry, 2011, 50, 12867-12876.	4.0	30
45	Photoconductivity and FET performance of an n-type porphyrazine semiconductor, tetrakis(thiadiazole)porphyrazine. Organic Electronics, 2011, 12, 239-243.	2.6	28
46	Effect of photoinduced charge displacement on organic optoelectronic conversion. Physical Review B, 2011, 84, .	3.2	7
47	Dual-gate field-effect transistors of octathio[8]circulene thin-films with ionic liquid and SiO2 gate dielectrics. Applied Physics Letters, 2010, 97, .	3.3	40
48	Influence of Magnetic Field upon the Conductance of a Unicomponent Crystal of a Tetrathiafulvalene-Based Nitronyl Nitroxide. Journal of the American Chemical Society, 2010, 132, 4528-4529.	13.7	56
49	Superperiodic conductance in a molecularly wired double-dot system self-assembled in a nanogap electrode. Journal of Applied Physics, 2010, 108, .	2.5	11
50	Electrochemical field-effect transistors of octathio[8]circulene robust thin films with ionic liquids. Chemical Physics Letters, 2009, 483, 81-83.	2.6	26
51	Synthesis and properties of TSF-based spin-polarized donor. Polyhedron, 2009, 28, 1996-2000.	2.2	20
52	Spintronics in organic Ï€-electronic systems. Journal of Materials Chemistry, 2009, 19, 1738.	6.7	112
53	Controlling Coâ€tunneling Currents in Nanoparticle Networks Using Spinâ€Polarized Wire Molecules. Small, 2008, 4, 471-475.	10.0	20
54	Cotunneling current affected by spin-polarized wire molecules in networked gold nanoparticles. Physical Review B, 2008, 77, .	3.2	41

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55	Association-mediated chromism of amphiphilic triphenyl-6-oxoverdazyl. New Journal of Chemistry, 2008, 32, 2201.	2.8	3
56	Electrochemical and Electrochromic Properties of Octathio[8]circulene Thin Films in Ionic Liquids. Journal of the American Chemical Society, 2008, 130, 15790-15791.	13.7	47
57	Negative Magneto-resistance Observed on an Ion-radical Salt of a TTF-based Spin-polarized Donor. Chemistry Letters, 2007, 36, 110-111.	1.3	48
58	Electron transport in networks of gold nanoparticles connected by oligothiophene molecular wires. Journal of Materials Chemistry, 2006, 16, 3459.	6.7	37
59	X-ray Magnetic Circular Dichroism of Size-Selected, Thiolated Gold Clusters. Journal of the American Chemical Society, 2006, 128, 12034-12035.	13.7	136
60	Dielectric properties associated with structural phase transitions observed in tetramethylammonium salt of o-phenylenebis(squaric acid). Chemical Physics, 2006, 322, 392-398.	1.9	3
61	Transformation between Monovalent and Divalent Ionic Solids: An Ionic(I)â€“Ionic(II) Phase Transition in a Biferroceneâ€“F1TCNQ Charge-Transfer Complex. Journal of the Physical Society of Japan, 2005, 74, 2214-2216.	1.6	33
62	Construction of a network structure composed of gold nanoparticles and spin-polarized molecular wires and its conducting and magnetic properties. Polyhedron, 2005, 24, 2263-2268.	2.2	15
63	A field-effect transistor consists of spin-polarized TTF-based donor. Polyhedron, 2005, 24, 2870-2875.	2.2	15
64	Current-Induced Low-Resistance State and Its Crystal Structure of a TTF-Based Dimeric Donor Salt. Journal of the American Chemical Society, 2005, 127, 12450-12451.	13.7	23
65	Noncatalytic, solvent-free thermal formation of cyclic trimers using 1,6-bis(acyloxymethyl)hexa-2,4-diyne derivatives. Tetrahedron Letters, 2004, 45, 2671-2675.	1.4	6
66	Polyhedral building block with specific facial interaction for conducting supramolecular self-assembly. Journal of Materials Chemistry, 2004, 14, 2842.	6.7	2
67	A novel TTF-based donor carrying four nitronyl nitroxides. Tetrahedron Letters, 2003, 44, 4415-4418.	1.4	24
68	Design and preparation of pyrrole-based spin-polarized donorsElectronic supplementary information (ESI) available: cyclic voltammograms for N-PN, Î²-PN, N-TPN, PhNN and TPP. See http://www.rsc.org/suppdata/jm/b2/b211986b/. Journal of Materials Chemistry, 2003, 13, 1011-1022.	6.7	60
69	Photoinduced Electron Transfer from Nitoxide Free Radicals to the Triplet State of C60. Journal of Physical Chemistry A, 2003, 107, 2815-2820.	2.5	9
70	Preparation and Characterization of Gold Nano-Particles Chemisorbed by Ï€-Radical Thiols. Chemistry Letters, 2002, 31, 1030-1031.	1.3	23
71	Formation of Self-Assembled Monolayer of Phenylthiol Carrying Nitronyl Nitroxide on Gold Surface. Chemistry Letters, 2002, 31, 596-597.	1.3	25
72	Bis(tetra-n-butylammonium) bis(Î¼-1,2-dicyanoethene-1,2-dithiolato-Îº3S,Sâ€²:Sâ€²)bis[(1,2-dicyanoethene-1,2-dithiolato-Îº2S,Sâ€²)cobalt(III)]. Acta Crystallographica Section C: Crystal Structure Communications, 2002, 58, m431-m433.	0.4	2

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73	EPR and Density Functional Studies of Light-Induced Radical Pairs in a Single Crystal of a Hexaarylbiimidazolyl Derivative. Angewandte Chemie - International Edition, 2001, 40, 580-582.	13.8	52
74	Theoretical Studies of Magnetic Interactions in 3â€², 5â€²-Dihydroxyphenyl Nitronyl Nitroxide Crystal. Molecular Crystals and Liquid Crystals, 1999, 335, 633-642.	0.3	1
75	Novel spin-polarized TTF donors affording ground state triplet cation diradicals. Tetrahedron Letters, 1999, 40, 5027-5030.	1.4	62
76	Ground State Spin Multiplicity of Cation Diradicals Derived from Pyrroles Carrying Nitronyl Nitroxide. Molecular Crystals and Liquid Crystals, 1997, 306, 81-88.	0.3	8
77	Theoretical Studies of Magnetic Interactions in 2â€², 5â€²-Dihydroxyphenyl Nitronyl Nitroxide Crystal. Molecular Crystals and Liquid Crystals, 1997, 306, 151-160.	0.3	9
78	Hydrogen-Bonded Organic Ferromagnet. Journal of the American Chemical Society, 1997, 119, 4369-4379.	13.7	172
79	Ferromagnetic Spin Ordering Along Intermolecular Hydrogen Bonds of a Hydroquinone Derivative Carrying a Nitronyl Nitroxide. Molecular Crystals and Liquid Crystals, 1996, 279, 139-144.	0.3	10
80	An organic ferromagnet: Î±-phase crystal of 2-(2â€²,5â€²-dihydroxyphenyl)-4,4,5,5-tetramethyl-4,5-dihydro-1H-imidazolyl-1-oxy-3-oxide (Î±-HQNN). Journal of the Chemical Society Chemical Communications, 1994, , 1723-1724.	2.0	106
81	Intramolecular Exchange Interaction in a Novel Cross-Conjugated Spin System Composed of .pi.-Ion Radical and Nitronyl Nitroxide. Journal of the American Chemical Society, 1994, 116, 4523-4524.	13.7	91