

Kazuhiro Marumoto

List of Publications by Year in descending order

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citations

304368

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docs citations

82
times ranked

2083
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct Evidence of the Internal Deterioration Mechanism due to Molecular Chain Ends in Polymer Solar Cells by Operando Spin Detection. ACS Applied Polymer Materials, 2022, 4, 607-617.	2.0	6
2	Optimized carrier extraction at interfaces for 23.6% efficient tin-lead perovskite solar cells. Energy and Environmental Science, 2022, 15, 2096-2107.	15.6	172
3	Stability improvement mechanism due to less charge accumulation in ternary polymer solar cells. Npj Flexible Electronics, 2022, 6, .	5.1	12
4	Spin-states in MoS2 thin-film transistors distinguished by operando electron spin resonance. Communications Materials, 2021, 2, .	2.9	7
5	Graphene oxide @ nickel phosphate nanocomposites for photocatalytic hydrogen production. Chemical Engineering Journal Advances, 2021, 6, 100105.	2.4	7
6	Analysis of Degradation by Various Spectroscopic Methods. , 2021, , 1-11.		0
7	Analyses of Charge Accumulation of PTzBT Ternary Polymer Solar Cells Using ESR Spectroscopy. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2021, 34, 351-356.	0.1	3
8	Effect of Passivation on the Interface between Perovskite and Donor-Acceptor Copolymer-based Hole-transport Layer in Perovskite Solar Cells. Chemistry Letters, 2020, 49, 1341-1344.	0.7	6
9	Operando direct observation of spin-states and charge-trappings of blue light-emitting-diode materials in thin-film devices. Scientific Reports, 2020, 10, 18800.	1.6	5
10	Deterioration mechanism of perovskite solar cells by operando observation of spin states. Communications Materials, 2020, 1, .	2.9	21
11	Direct Evidence of Less Charge Accumulation in Highly Durable Polymer Solar Cells Using Operando Electron Spin Resonance Spectroscopy. ACS Applied Energy Materials, 2020, 3, 2028-2036.	2.5	11
12	Facile light-initiated radical generation from 4-substituted pyridine under ambient conditions. Chemical Communications, 2020, 56, 6937-6940.	2.2	4
13	Synthesis and color development mechanism of Li ₂ CoTi ₃ O ₈ cyan pigments: effect of synthetic temperature. Journal of the Ceramic Society of Japan, 2020, 128, 260-266.	0.5	1
14	Analyses of PTzNTz Polymer Solar Cells Using ESR Spectroscopy. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2020, 33, 97-102.	0.1	6
15	Molecular Oriented Charge Accumulation in High-Efficiency Polymer Solar Cells as Revealed by Operando Spin Analysis. ACS Applied Materials & Interfaces, 2019, 11, 31129-31138.	4.0	19
16	Boosting thermoelectric power factor of free-standing Poly(3,4ethylenedioxythiophene):polystyrenesulphonate films by incorporation of bismuth antimony telluride nanostructures. Journal of Power Sources, 2019, 435, 226758.	4.0	21
17	Transient Electron Spin Polarization Imaging of Heterogeneous Charge-Separation Geometries at Bulk-Heterojunction Interfaces in Organic Solar Cells. Journal of Physical Chemistry C, 2019, 123, 13472-13481.	1.5	20
18	Motional narrowing under Markovian and non-Markovian hopping transitions in inhomogeneous broadened absorption line shape. Physical Review E, 2019, 99, 052115.	0.8	1

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19	Direct observation of charge transfer at the interface between PEDOT:PSS and perovskite layers. Applied Physics Express, 2019, 12, 041002.	1.1	12
20	Scalable free-standing polypyrrole films for wrist-band type flexible thermoelectric power generator. Energy, 2019, 176, 853-860.	4.5	27
21	Electrically Controllable Spin States of Holes and Electrons in Organic Semiconductor Materials. ACS Applied Electronic Materials, 2019, 1, 2522-2530.	2.0	6
22	Elucidating the mechanisms behind thermoelectric power factor enhancement of poly(3,4-ethylenedioxythiophene):poly(styrenesulfonate) flexible films. Vacuum, 2018, 153, 238-247.	1.6	14
23	Direct Observation of Radical States and the Correlation with Performance Degradation in Organic Light-Emitting Diodes During Device Operation. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1700731.	0.8	15
24	Analysis of the Size of Two-Component C ₆₀ -C ₇₀ Fullerene Whiskers. Transactions of the Materials Research Society of Japan, 2018, 43, 229-232.	0.2	0
25	A dramatic improvement in the tensile strength of fullerene needle-like crystals. New Carbon Materials, 2018, 33, 310-315.	2.9	4
26	Biogenic Reduction of Graphene Oxide: An Efficient Superparamagnetic Material for Photocatalytic Hydrogen Production. ACS Applied Energy Materials, 2018, 1, 5907-5918.	2.5	23
27	Investigation of Charge Accumulation States in Polymer Solar Cells using Light-Induced Electron Spin Resonance Spectroscopy. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2018, 31, 169-176.	0.1	8
28	Operando Direct Observation of Charge Accumulation and the Correlation with Performance Deterioration in PTB7 Polymer Solar Cells. ACS Applied Materials & Interfaces, 2018, 10, 26434-26442.	4.0	23
29	Electrically Controlled Dimensionality of Magnetic Systems in Organic Materials. Applied Magnetic Resonance, 2018, 49, 767-782.	0.6	6
30	Mechanism of Light-Soaking Effect in Inverted Polymer Solar Cells with Open-Circuit Voltage Increase. ACS Omega, 2017, 2, 1617-1624.	1.6	10
31	Direct observation of dramatically enhanced hole formation in a perovskite-solar-cell material spiro-OMeTAD by Li-TFSI doping. Applied Physics Letters, 2017, 110, .	1.5	53
32	Dependence of the Device Performance of Polymer Solar Cells on the Insertion of Metal Nanoparticle Layers at the Electron-collecting Electrodes. Electrochemistry, 2017, 85, 272-275.	0.6	4
33	Investigation of Degradation Mechanism of Pentacene/C ₆₀ Heterojunction Solar Cells. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2017, 30, 569-575.	0.1	2
34	Light-Induced Degradation Mechanism in Poly(3-hexylthiophene)/Fullerene Blend Solar Cells. Advanced Energy Materials, 2016, 6, 1600171.	10.2	40
35	ESR Study of Degradation Mechanism Due to Charge Formation in Polymer Solar Cells. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2016, 29, 541-545.	0.1	5
36	Direct observation of electrically induced Pauli paramagnetism in single-layer graphene using ESR spectroscopy. Scientific Reports, 2016, 6, 34966.	1.6	12

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55	Evaluation of Microscopic Properties of Organic Solar Cells by Light-Induced Electron Spin Resonance. Japanese Journal of Applied Physics, 2012, 51, 10NE08.	0.8	0
56	Electron Spin Resonance Study of Interface Trap States and Charge Carrier Concentration in Rubrene Single-Crystal Field-Effect Transistors. Applied Physics Express, 2011, 4, 085702.	1.1	11
57	Direct determination of interfacial molecular orientations in field-effect devices of P3HT/PCBM composites by electron spin resonance. Organic Electronics, 2011, 12, 716-723.	1.4	25
58	Microscopic mechanisms behind the high mobility in rubrene single-crystal transistors as revealed by field-induced electron spin resonance. Physical Review B, 2011, 83, .	1.1	64
59	DEPENDENCE OF DEVICE CHARACTERISTICS OF BULK-HETEROJUNCTION ORGANIC THIN-FILM SOLAR CELLS ON CONCENTRATION OF GLYCEROL AND SORBITOL ADDITION IN PEDOT: PSS SOLUTIONS FOR FABRICATING BUFFER LAYERS. Journal of Nonlinear Optical Physics and Materials, 2010, 19, 653-662.	1.1	6
60	Direct observation of the charge carrier concentration in organic field-effect transistors by electron spin resonance. Applied Physics Letters, 2009, 94, 103308.	1.5	36
61	Electron Spin Resonance Observation of Gate-induced Charge Carriers in Organic Field-effect Devices Fabricated on Silicon Substrates. Japanese Journal of Applied Physics, 2007, 46, L792-L795.	0.8	20
62	Light-Induced ESR Studies of Quadrimolecular Recombination Kinetics of Photogenerated Charge Carriers in Regioregular Poly(3-alkylthiophene)/C ₆₀ Composites: Alkyl Chain Dependence. Japanese Journal of Applied Physics, 2007, 46, 5187.	0.8	15
63	Electron Spin Resonance Observation of Gate-Induced Ambipolar Charge Carriers in Organic Devices. Japanese Journal of Applied Physics, 2007, 46, L1191.	0.8	20
64	Electron-nuclear double-resonance observation of spatial extent of polarons in polythiophene and poly(3-alkylthiophene). Chemical Physics Letters, 2007, 435, 273-277.	1.2	24
65	Dynamical Valence Fluctuation at the Charge Density Wave Phase Boundary in Iodide-Bridged Pt Compound [Pt(chxn)2]I2. Journal of the American Chemical Society, 2006, 128, 6420-6425.	6.6	34
66	Spatial Extent of Wave Functions of Gate-Induced Hole Carriers in Pentacene Field-Effect Devices as Investigated by Electron Spin Resonance. Physical Review Letters, 2006, 97, 256603.	2.9	162
67	Electrical Conduction of Regioregular and Regiorandom Poly(3-hexylthiophene) Doped with Iodine. Journal of the Physical Society of Japan, 2005, 74, 3314-3319.	0.7	31
68	Electron Spin Resonance of Field-Induced Polarons in Regioregular Poly(3-alkylthiophene) Using Metal-Insulator-Semiconductor Diode Structures. Journal of the Physical Society of Japan, 2005, 74, 3066-3076.	0.7	67
69	Visualization of Local Valence Structures in Quasi-One-Dimensional Halogen-Bridged Complexes [Ni1-xPdx(chxn)2Br]Br2 by STM. Angewandte Chemie - International Edition, 2004, 43, 3171-3175.	7.2	40
70	[{Pt(en)2}[PtX2(en)2]3][{(MX5)X3}2]·nH2O: Quasi-One-Dimensional Halogen-Bridged PtII-PtIV Mixed-Valence Compounds with Magnetic Counteranions. Angewandte Chemie - International Edition, 2004, 43, 4763-4767.	7.2	24
71	Electron Spin Resonance Observations of Field-Induced Polarons in Regioregular Poly(3-octylthiophene) Metal-Insulator-Semiconductor Diode Structures. Journal of the Physical Society of Japan, 2004, 73, 1673-1676.	0.7	29
72	ESR Studies of Layered-Perovskite Manganites R0.5Sr1.5MnO4 (R= La, Nd). Journal of the Physical Society of Japan, 2003, 72, 582-587.	0.7	2

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73	ESR Detection of Induced Spin Moments in Halogen-Bridged Mixed-Metal Complexes $Ni_{1-x}Pd_x(chxn)_2Br_3$. Journal of the Physical Society of Japan, 2002, 71, 1370-1375.	0.7	10
74	ESR Observation of Optically-Generated Polarons in Conjugated Electroluminescent Polymers. Molecular Crystals and Liquid Crystals, 2001, 371, 159-162.	0.3	4
75	Electron Spin Resonance Study of Low-Dimensional Magnetic Properties of MnF_2 - CaF_2 Superlattices. Japanese Journal of Applied Physics, 2001, 40, L1151-L1153.	0.8	9
76	Tuning of Charge Density Wave Strengths by Competition between Electron-Phonon Interaction of $PdII$ - $PdIV$ Mixed-Valence States and Electron Correlation of $NiIII$ States in Quasi-One-Dimensional Bromo-Bridged Ni - Pd Mixed-Metal MX Chain Compounds $Ni_{1-x}Pd_x(chxn)_2Br_3$. Inorganic Chemistry, 1999, 38, 5124-5130.	1.9	54
77	Effects of SiN refractive index and SiO_2 thickness on polarization-type potential-induced degradation in front-emitter crystalline silicon photovoltaic cell modules. Energy Science and Engineering, 0, , .	1.9	5