

Jong-Ho Choi

List of Publications by Year in descending order

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67
papers

1,568
citations

279798

23
h-index

330143

37
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70
all docs

70
docs citations

70
times ranked

1627
citing authors

#	ARTICLE	IF	CITATIONS
1	Vibrational Spectroscopy of the Cl-(H ₂ O) _n Anionic Clusters, n= 1~5. Journal of Physical Chemistry A, 1998, 102, 503-507.	2.5	210
2	Electrical and optical studies of organic light emitting devices using SWCNTs-polymer nanocomposites. Optical Materials, 2003, 21, 147-151.	3.6	93
3	Universal three-dimensional crosslinker for all-photopatterned electronics. Nature Communications, 2020, 11, 1520.	12.8	65
4	Fabrication and characterization of pentacene-based transistors with a room-temperature mobility of 1.25cm ² /Vs. Organic Electronics, 2008, 9, 432-438.	2.6	64
5	Studies of Tetracene- and Pentacene-Based Organic Thin-Film Transistors Fabricated by the Neutral Cluster Beam Deposition Method. Journal of Physical Chemistry B, 2005, 109, 23918-23924.	2.6	54
6	Poly[2-(N-carbazolyl)-5-(2-ethylhexyloxy)-1,4-phenylenevinylene]/tris (8-hydroxyquinoline) aluminum heterojunction electroluminescent devices produced by cluster beam deposition methods. Journal of Applied Physics, 2002, 91, 1944-1951.	2.5	47
7	Fabrication and characterization of OLEDs using MEH-PPV and SWCNT nanocomposites. Synthetic Metals, 2005, 153, 205-208.	3.9	44
8	Characterization of light emitting devices based on a single-walled carbon nanotube-polymer composite. Synthetic Metals, 2003, 139, 565-568.	3.9	40
9	Characterization of Perylene and Tetracene-Based Ambipolar Light-Emitting Field-Effect Transistors. Journal of Physical Chemistry C, 2010, 114, 6141-6147.	3.1	37
10	Atom-radical reaction dynamics of O(3P)+C ₃ H ₅ →C ₃ H ₄ +OH: Nascent rovibrational state distributions of product OH. Journal of Chemical Physics, 2002, 117, 2017-2029.	3.0	35
11	Fabrication and characterization of air-stable, ambipolar heterojunction-based organic light-emitting field-effect transistors. Organic Electronics, 2009, 10, 1293-1299.	2.6	33
12	Spectroscopic studies of the intracuster hydration reaction of NO ₂ ⁺ . The Journal of Physical Chemistry, 1994, 98, 12176-12185.	2.9	31
13	A theoretical study of the reaction of O(3P) with an allyl radical C ₃ H ₅ . Journal of Chemical Physics, 2003, 119, 8966-8978.	3.0	31
14	Structure-Property Relationships of Semiconducting Polymers for Flexible and Durable Polymer Field-Effect Transistors. ACS Applied Materials & Interfaces, 2017, 9, 40503-40515.	8.0	31
15	Crossed beam investigations of the reaction dynamics of O(3P) with allyl radical, C ₃ H ₅ . Journal of Chemical Physics, 2002, 116, 2675-2679.	3.0	30
16	Organic Light-Emitting Field-Effect Transistors Based upon Pentacene and Perylene. Journal of Physical Chemistry C, 2013, 117, 4764-4770.	3.1	30
17	Exploring the dynamics of hydrogen atom release from the radical-radical reaction of O(3P) with C ₃ H ₅ . Journal of Chemical Physics, 2004, 120, 7976-7982.	3.0	29
18	Simultaneous analysis of urinary phthalate metabolites of residents in Korea using isotope dilution gas chromatography-mass spectrometry. Science of the Total Environment, 2014, 470-471, 1408-1413.	8.0	29

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19	Air stable, ambipolar organic transistors and inverters based upon a heterojunction structure of pentacene on N,Nâ€²-ditridecylperylene-3,4,9,10-tetracarboxylic di-imide. <i>Applied Physics Letters</i> , 2010, 97, 023506.	3.3	28
20	Radicalâ€™radical reaction dynamics: A combined crossed-beam and theoretical study. <i>International Reviews in Physical Chemistry</i> , 2006, 25, 613-653.	2.3	27
21	Simple Solvent Engineering for High-Mobility and Thermally Robust Conjugated Polymer Nanowire Field-Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 29824-29830.	8.0	25
22	Ab initio investigations of the radical-radical reaction of O(P3)+C3H3. <i>Journal of Chemical Physics</i> , 2006, 124, 044311.	3.0	24
23	Silica Nanodepletors: Targeting and Clearing Alzheimer's Î²â€™Amyloid Plaques. <i>Advanced Functional Materials</i> , 2020, 30, 1910475.	14.9	24
24	Perylene-based n-type field-effect transistors prepared by the neutral cluster beam deposition method. <i>Organic Electronics</i> , 2009, 10, 895-900.	2.6	23
25	Low-voltage pentacene thin-film transistors using Hf-based blend gate dielectrics. <i>Journal of Materials Chemistry C</i> , 2016, 4, 807-814.	5.5	23
26	Low-voltage organic transistors and inverters using HfOx dielectrics. <i>Organic Electronics</i> , 2016, 30, 131-135.	2.6	22
27	A Size-Selectively Biomolecule-Immobilized Nanoprobe-Based Chemiluminescent Lateral Flow Immunoassay for Detection of Avian-Origin Viruses. <i>Analytical Chemistry</i> , 2021, 93, 792-800.	6.5	22
28	A combined crossed beam and theoretical investigation of O(3P)+C3H3â€™C3H2+OH. <i>Journal of Chemical Physics</i> , 2004, 120, 2215-2224.	3.0	20
29	Crossed-beam radical-radical reaction dynamics of O(P3)+C3H3â€™H(S2)+C3H2O. <i>Journal of Chemical Physics</i> , 2006, 124, 204320.	3.0	20
30	Characteristics of tetracene-based field-effect transistors on pretreated surfaces. <i>Organic Electronics</i> , 2009, 10, 222-227.	2.6	20
31	Cobalt sulfide thin films for counter electrodes of dye-sensitized solar cells with cobalt complex based electrolytes. <i>Electrochimica Acta</i> , 2013, 114, 745-749.	5.2	20
32	A Nonchlorinated Solvent-Processable Fluorinated Planar Conjugated Polymer for Flexible Field-Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 28817-28827.	8.0	20
33	Study on copper phthalocyanine and perylene-based ambipolar organic light-emitting field-effect transistors produced using neutral beam deposition method. <i>Journal of Applied Physics</i> , 2014, 115, 164503.	2.5	19
34	Radicalâ€™radical reaction dynamics: The OH formation in the reaction of O(3P) with propargyl radical, C3H3. <i>Journal of Chemical Physics</i> , 2003, 119, 9337-9340.	3.0	18
35	Characterization of tetracene-based electroluminescent devices produced by cluster beam deposition methods. <i>Synthetic Metals</i> , 2005, 153, 209-212.	3.9	18
36	A study of the radical-radical reaction dynamics of O(P3)+t-C4H9â€™OH+iso-C4H8. <i>Journal of Chemical Physics</i> , 2006, 124, 104307.	3.0	17

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37	Performance and transport characteristics of 1,4-dihexylsexithiophene-based transistors with a high room-temperature mobility of 0.16 cm ² /Vs. Applied Physics Letters, 2008, 92, 223310.	3.3	16
38	A comparative study of the polyaniline thin films produced by the cluster beam deposition and laser ablation methods. Journal of Chemical Physics, 2006, 124, 014710.	3.0	15
39	Studies of pentacene-based thin film devices produced by cluster beam deposition methods. Optical Materials, 2003, 21, 451-454.	3.6	14
40	Low-voltage organic devices based on pristine and self-assembled monolayer-treated HfTiO _x gate dielectrics. Journal of Materials Chemistry C, 2016, 4, 7999-8005.	5.5	14
41	Cesium Lead Bromide Quantum Dot Light-Emitting Field-Effect Transistors. ACS Applied Materials & Interfaces, 2020, 12, 21944-21951.	8.0	14
42	A combined crossed-beam and theoretical investigation of radical-radical reaction dynamics of O(3P) + t-C ₄ H ₉ OH + iso-C ₄ H ₈ . Journal of Chemical Physics, 2005, 123, 211105.	3.0	13
43	A combined crossed-beam and ab initio study of the atom radical reaction dynamics of O(3P) + C ₂ H ₅ OH + C ₂ H ₄ + OH: analysis of nascent internal state distributions of the OH product. Physical Chemistry Chemical Physics, 2010, 12, 7098.	2.8	12
44	Influence of gate dielectrics on the performance of single-layered organic transistors and bi-layered organic light-emitting transistors prepared by the neutral cluster beam deposition method. Journal of Applied Physics, 2011, 109, 084503.	2.5	12
45	Device characteristics of perylene-based transistors and inverters prepared with hydroxyl-free polymer-modified gate dielectrics and thermal post-treatment. Organic Electronics, 2012, 13, 2192-2200.	2.6	12
46	Effects of Doping and Electrode Contacts on Performance of Organic Light-Emitting Transistors Based on Pentacene and Tris(8-hydroxyquinoline)aluminum. Journal of Physical Chemistry C, 2016, 120, 13716-13724.	3.1	11
47	A Theoretical Investigation of the Gas-Phase Oxidation Reaction of the Saturated tert-Butyl Radical. ChemPhysChem, 2006, 7, 2526-2532.	2.1	10
48	ZrO ₂ dielectric-based low-voltage organic thin-film inverters. Applied Physics Letters, 2013, 103, 063304.	3.3	10
49	Air-Stable, Hysteresis-Free Organic Complementary Inverters Produced by the Neutral Cluster Beam Deposition Method. Journal of Physical Chemistry C, 2011, 115, 11763-11767.	3.1	9
50	Low-voltage organic light-emitting field-effect transistors using n-Dodecylphosphonic acid-passivated HfO _x dielectrics. Organic Electronics, 2017, 51, 287-294.	2.6	9
51	A gas-phase crossed-beam study of OH produced in the radical-radical reaction of O(3P) with iso-propyl radical (CH ₃) ₂ CH. Physical Chemistry Chemical Physics, 2011, 13, 8122.	2.8	8
52	Crossed-Beam Investigation of O(³ P) + C ₂ H ₅ C ₂ H ₄ and C ₂ H ₄ C ₂ H ₄ + OH. Journal of Physical Chemistry A, 2010, 114, 4891-4895.	2.5	7
53	Hydrogen Atom Release Dynamics in Radical-Radical Reactions: Saturated vs Unsaturated. ChemPhysChem, 2008, 9, 1099-1103.	2.1	6
54	Theoretical Investigation of the Radical-Radical Reaction of O(³ P) + C ₂ H ₃ C ₂ H ₃ and Comparison with Gas-Phase Crossed-Beam Experiments. Journal of Physical Chemistry A, 2015, 119, 11761-11771.	2.5	6

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55	Organic Light-Emitting Transistors Based on Pentacene and 4,5-Di(9H-carbazol-9-yl)phthalonitrile Doped onto 1,3-Bis(N-carbazolyl)benzene. <i>Journal of Physical Chemistry C</i> , 2019, 123, 11063-11072.	3.1	6
56	A combined crossed-beam and theoretical study of the reaction dynamics of $O(3P) + C_2H_3 \rightarrow C_2H_2 + OH$: Analysis of the nascent OH products with the preferential population of the $\langle i \rangle$ (A^2) component. <i>Journal of Chemical Physics</i> , 2012, 137, 204311.	3.0	5
57	Analysis of Nascent Rotational Energy Distributions and Reaction Mechanisms of the Gas-Phase Radical-Radical Reaction $O(^3P) + (CH_3)_2CHC_3H_6 + OH$. <i>ChemPhysChem</i> , 2012, 13, 1289-1296.	2.1	5
58	Performance enhancement of pentacene and F16CuPc-based low-voltage devices using cross-linked blend gate dielectrics. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 045105.	2.8	5
59	A computational study of the radical-radical reaction of $O(3P) + C_2H_5$ with comparisons to gas-phase kinetics and crossed-beam experiments. <i>Theoretical Chemistry Accounts</i> , 2011, 129, 105-118.	1.4	4
60	Study of the Gas-Phase Oxygen-Hydrogen Exchange Reaction of $O(^3P) + C_3H_7 \rightarrow H(^2S) + CH_3COCH_3$. <i>Journal of Physical Chemistry A</i> , 2013, 117, 12020-12025.	2.5	4
61	A study of effects of electrode contacts on performance of organic-based light-emitting field-effect transistors. <i>Optical Materials</i> , 2018, 76, 359-367.	3.6	4
62	Determination of six iodotrihalomethanes in drinking water in Korea. <i>Science of the Total Environment</i> , 2018, 640-641, 581-590.	8.0	4
63	Probing the kinetic energy-release dynamics of H-atom products from the gas-phase reaction of $O(^3P)$ with vinyl radical C_2H_3 . <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 23679-23685.	2.8	3
64	Organic devices based on pentacene and perylene by the neutral cluster beam deposition method. <i>Synthetic Metals</i> , 2016, 220, 421-427.	3.9	3
65	Gas-Phase Radical-Radical Reaction Dynamics of $O(^3P) + C_2H_3 \rightarrow C_2H_2 + OH$. <i>Chemistry - A European Journal</i> , 2011, 17, 11410-11414.	3.3	2
66	$\langle i \rangle$ -Conjugated organic-based devices with different layered structures produced by the neutral cluster beam deposition method and operating conduction mechanism. <i>Journal Physics D: Applied Physics</i> , 2012, 45, 505108.	2.8	2
67	A comparative study of hydrogen-atom release dynamics in radical-radical reactions. <i>Physica Scripta</i> , 2009, 80, 048116.	2.5	0