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 g-index
70 all docs	70 docs citations	70 times ranked	1627 citing authors

#	Article	IF	Citations
1	A Size-Selectively Biomolecule-Immobilized Nanoprobe-Based Chemiluminescent Lateral Flow Immunoassay for Detection of Avian-Origin Viruses. Analytical Chemistry, 2021, 93, 792-800.	6.5	22
2	Universal three-dimensional crosslinker for all-photopatterned electronics. Nature Communications, 2020, 11, 1520.	12.8	65
3	Silica Nanodepletors: Targeting and Clearing Alzheimer's Î²â€Amyloid Plaques. Advanced Functional Materials, 2020, 30, 1910475.	14.9	24
4	Cesium Lead Bromide Quantum Dot Light-Emitting Field-Effect Transistors. ACS Applied Materials & Interfaces, 2020, 12, 21944-21951.	8.0	14
5	Organic Light-Emitting Transistors Based on Pentacene and 4,5-Di(9H-carbazol-9-yl)phthalonitrile Doped onto 1,3-Bis(N-carbazolyl)benzene. Journal of Physical Chemistry C, 2019, 123, 11063-11072.	3.1	6
6	A study of effects of electrode contacts on performance of organic-based light-emitting field-effect transistors. Optical Materials, 2018, 76, 359-367.	3.6	4
7	Simple Solvent Engineering for High-Mobility and Thermally Robust Conjugated Polymer Nanowire Field-Effect Transistors. ACS Applied Materials & Interfaces, 2018, 10, 29824-29830.	8.0	25
8	Determination of six iodotrihalomethanes in drinking water in Korea. Science of the Total Environment, 2018, 640-641, 581-590.	8.0	4
9	Low-voltage organic light-emitting field-effect transistors using n-Dodecylphosphonic acid-passivated HfOx dielectrics. Organic Electronics, 2017, 51, 287-294.	2.6	9
10	A Nonchlorinated Solvent-Processable Fluorinated Planar Conjugated Polymer for Flexible Field-Effect Transistors. ACS Applied Materials & Interfaces, 2017, 9, 28817-28827.	8.0	20
11	Structureâ€“Property Relationships of Semiconducting Polymers for Flexible and Durable Polymer Field-Effect Transistors. ACS Applied Materials & Interfaces, 2017, 9, 40503-40515.	8.0	31
12	Organic devices based on pentacene and perylene by the neutral cluster beam deposition method. Synthetic Metals, 2016, 220, 421-427.	3.9	3
13	Low-voltage organic devices based on pristine and self-assembled monolayer-treated HfTiO_xgate dielectrics. Journal of Materials Chemistry C, 2016, 4, 7999-8005.	5.5	14
14	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
15	Low-voltage pentacene thin-film transistors using Hf-based blend gate dielectrics. Journal of Materials Chemistry C, 2016, 4, 807-814.	5.5	23
16	Low-voltage organic transistors and inverters using HfOx dielectrics. Organic Electronics, 2016, 30, 131-135.	2.6	22
17	Performance enhancement of pentacene and F16CuPc-based low-voltage devices using cross-linked blend gate dielectrics. Journal Physics D: Applied Physics, 2015, 48, 045105.	2.8	5
18	Theoretical Investigation of the Radicalâ€“Radical Reaction of O(³P) + C₂H₃ and Comparison with Gas-Phase Crossed-Beam Experiments. Journal of Physical Chemistry A, 2015, 119, 11761-11771.	2.5	6

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19	Study on copper phthalocyanine and perylene-based ambipolar organic light-emitting field-effect transistors produced using neutral beam deposition method. Journal of Applied Physics, 2014, 115, 164503.	2.5	19
20	Simultaneous analysis of urinary phthalate metabolites of residents in Korea using isotope dilution gas chromatographyâ€“mass spectrometry. Science of the Total Environment, 2014, 470-471, 1408-1413.	8.0	29
21	Probing the kinetic energy-release dynamics of H-atom products from the gas-phase reaction of O(³P) with vinyl radical C₂H₃. Physical Chemistry Chemical Physics, 2014, 16, 23679-23685.	2.8	3
22	Study of the Gas-Phase Oxygenâ€“Hydrogen Exchange Reaction of O(³P) + i-C₃H₇ â†' H(²S) + CH₃COCH₃. Journal of Physical Chemistry A, 2013, 117, 12020-12025.	2.5	4
23	Cobalt sulfide thin films for counter electrodes of dye-sensitized solar cells with cobalt complex based electrolytes. Electrochimica Acta, 2013, 114, 745-749.	5.2	20
24	Organic Light-Emitting Field-Effect Transistors Based upon Pentacene and Perylene. Journal of Physical Chemistry C, 2013, 117, 4764-4770.	3.1	30
25	ZrO2 dielectric-based low-voltage organic thin-film inverters. Applied Physics Letters, 2013, 103, 063304.	3.3	10
26	Ï€-Conjugated organic-based devices with different layered structures produced by the neutral cluster beam deposition method and operating conduction mechanism. Journal Physics D: Applied Physics, 2012, 45, 505108.	2.8	2
27	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
28	A combined crossed-beam and theoretical study of the reaction dynamics of O(3P) + C2H3 â†' C2H2 + OH: Analysis of the nascent OH products with the preferential population of the Î(Aâ€²) component. Journal of Chemical Physics, 2012, 137, 204311.	3.0	5
29	Analysis of Nascent Rotational Energy Distributions and Reaction Mechanisms of the Gasâ€Phase Radicalâ€“Radical Reaction O(³P)+(CH₃)₂CHâ†'C₃H₆+OH. ChemPhysChem, 2012, 13, 1289-1296.	2.1	5
30	A gas-phase crossed-beam study of OH produced in the radicalâ€“radical reaction of O(3P) with iso-propyl radical (CH3)2CH. Physical Chemistry Chemical Physics, 2011, 13, 8122.	2.8	8
31	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
32	A computational study of the radicalâ€“radical reaction of O(3P)Â+ÂC2H5 with comparisons to gas-phase kinetics and crossed-beam experiments. Theoretical Chemistry Accounts, 2011, 129, 105-118.	1.4	4
33	Gasâ€Phase Radicalâ€“Radical Reaction Dynamics of O(³P)+C₂H₃â†'C₂H₂+OH. Chemistry - A European Journal, 2011, 17, 11410-11414.	3.3	2
34	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
35	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. Applied Physics Letters, 2010, 97, 023506.	3.3	28
36	Crossed-Beam Investigation of O(³P) + C₂H₅ â†' C₂H₄ + OH. Journal of Physical Chemistry A, 2010, 114, 4891-4895.	2.5	7

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37	Characterization of Perylene and Tetracene-Based Ambipolar Light-Emitting Field-Effect Transistors. Journal of Physical Chemistry C, 2010, 114, 6141-6147.	3.1	37
38	A combined crossed-beam and ab initio study of the atomâ€“radical reaction dynamics of O(3P) + C2H5â† C2H4 + OH: analysis of nascent internal state distributions of the OH product. Physical Chemistry Chemical Physics, 2010, 12, 7098.	2.8	12
39	A comparative study of hydrogen-atom release dynamics in radicalâ€“radical reactions. Physica Scripta, 2009, 80, 048116.	2.5	0
40	Characteristics of tetracene-based field-effect transistors on pretreated surfaces. Organic Electronics, 2009, 10, 222-227.	2.6	20
41	Perylrene-based n-type field-effect transistors prepared by the neutral cluster beam deposition method. Organic Electronics, 2009, 10, 895-900.	2.6	23
42	Fabrication and characterization of air-stable, ambipolar heterojunction-based organic light-emitting field-effect transistors. Organic Electronics, 2009, 10, 1293-1299.	2.6	33
43	Hydrogen Atom Release Dynamics in Radicalâ€“Radical Reactions: Saturated vs Unsaturated. ChemPhysChem, 2008, 9, 1099-1103.	2.1	6
44	Fabrication and characterization of pentacene-based transistors with a room-temperature mobility of 1.25cm2/Vs. Organic Electronics, 2008, 9, 432-438.	2.6	64
45	Performance and transport characteristics of Î±,ï‰-dihexylsexithiophene- based transistors with a high room-temperature mobility of 0.16cm2â•Vs. Applied Physics Letters, 2008, 92, 223310.	3.3	16
46	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
47	A study of the radical-radical reaction dynamics of O(P3)+t-C4H9â†'OH+iso-C4H8. Journal of Chemical Physics, 2006, 124, 104307.	3.0	17
48	Radicalâ€“radical reaction dynamics: A combined crossed-beam and theoretical study. International Reviews in Physical Chemistry, 2006, 25, 613-653.	2.3	27
49	Crossed-beam radical-radical reaction dynamics of O(P3)+C3H3â†'H(S2)+C3H2O. Journal of Chemical Physics, 2006, 124, 204320.	3.0	20
50	Ab initioinvestigations of the radical-radical reaction of O(P3)+C3H3. Journal of Chemical Physics, 2006, 124, 044311.	3.0	24
51	A Theoretical Investigation of the Gas-Phase Oxidation Reaction of the Saturated tert-Butyl Radical. ChemPhysChem, 2006, 7, 2526-2532.	2.1	10
52	A combined crossed-beam and theoretical investigation of radical-radical reaction dynamics of O(P3)+t-C4H9â†'OH+iso-C4H8. Journal of Chemical Physics, 2005, 123, 211105.	3.0	13
53	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
54	Characterizaton of tetracene-based electroluminescent devices produced by cluster beam deposition methods. Synthetic Metals, 2005, 153, 209-212.	3.9	18

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55	Fabrication and characterization of OLEDs using MEH-PPV and SWCNT nanocomposites. Synthetic Metals, 2005, 153, 205-208.	3.9	44
56	A combined crossed beam and theoretical investigation of O(3P)+C3H3â†'C3H2+OH. Journal of Chemical Physics, 2004, 120, 2215-2224.	3.0	20
57	Exploring the dynamics of hydrogen atom release from the radicalâ€"radical reaction of O(3P) with C3H5. Journal of Chemical Physics, 2004, 120, 7976-7982.	3.0	29
58	Radicalâ€"radical reaction dynamics: The OH formation in the reaction of O(3P) with propargyl radical, C3H3. Journal of Chemical Physics, 2003, 119, 9337-9340.	3.0	18
59	Electrical and optical studies of organic light emitting devices using SWCNTs-polymer nanocomposites. Optical Materials, 2003, 21, 147-151.	3.6	93
60	Studies of pentacene-based thin film devices produced by cluster beam deposition methods. Optical Materials, 2003, 21, 451-454.	3.6	14
61	Characterization of light emitting devices based on a single-walled carbon nanotubeâ€"polymer composite. Synthetic Metals, 2003, 139, 565-568.	3.9	40
62	A theoretical study of the reaction of O(3P) with an allyl radical C3H5. Journal of Chemical Physics, 2003, 119, 8966-8978.	3.0	31
63	Atom-radical reaction dynamics of O(3P)+C3H5â†'C3H4+OH: Nascent rovibrational state distributions of product OH. Journal of Chemical Physics, 2002, 117, 2017-2029.	3.0	35
64	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
65	Crossed beam investigations of the reaction dynamics of O(3P) with allyl radical, C3H5. Journal of Chemical Physics, 2002, 116, 2675-2679.	3.0	30
66	Vibrational Spectroscopy of the Cl-(H2O)nAnionic Clusters,n= 1â^'5. Journal of Physical Chemistry A, 1998, 102, 503-507.	2.5	210
67	Spectroscopic sudies of the intracluster hydration reaction of NO2+. The Journal of Physical Chemistry, 1994, 98, 12176-12185.	2.9	31