Choon-Sang Park

List of Publications by Year
in descending order

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68 papers	379 citations	840776 11 h-index	839539 18 g-index
68 all docs	68 docs citations	68 times ranked	303 citing authors

#	Article	IF	Citations
1	A Review of Plasma Synthesis Methods for Polymer Films and Nanoparticles under Atmospheric Pressure Conditions. Polymers, 2021, 13, 2267.	4.5	35
2	Conductive Polymer Synthesis with Single-Crystallinity via a Novel Plasma Polymerization Technique for Gas Sensor Applications. Materials, 2016, 9, 812.	2.9	34
3	Atmospheric Pressure Plasma Polymerization Synthesis and Characterization of Polyaniline Films Doped with and without Iodine. Materials, 2017, 10, 1272.	2.9	29
4	Synthesis and Characterization of Nanofibrous Polyaniline Thin Film Prepared by Novel Atmospheric Pressure Plasma Polymerization Technique. Materials, 2016, 9, 39.	2.9	28
5	Humidity-independent conducting polyaniline films synthesized using advanced atmospheric pressure plasma polymerization with in-situ iodine doping. Applied Physics Letters, 2017, 110, .	3.3	28
6	Synthesis of a Polyaniline Nanoparticle Using a Solution Plasma Process with an Ar Gas Bubble Channel. Polymers, 2019, 11, 105.	4.5	25
7	Influences of guide-tube and bluff-body on advanced atmospheric pressure plasma source for single-crystalline polymer nanoparticle synthesis at low temperature. Physics of Plasmas, 2017, 24, .	1.9	19
8	In-Liquid Plasma Process for Size- and Shape-Controlled Synthesis of Silver Nanoparticles by Controlling Gas Bubbles in Water. Materials, 2018, 11, 891.	2.9	19
9	Synthesis and Properties of Plasma-Polymerized Methyl Methacrylate via the Atmospheric Pressure Plasma Polymerization Technique. Polymers, 2019, 11, 396.	4.5	15
10	Atmospheric pressure plasma polymerization using double grounded electrodes with He/Ar mixture. AIP Advances, 2015, 5, 097137.	1.3	13
11	Ultrafast Room Temperature Synthesis of Porous Polythiophene via Atmospheric Pressure Plasma Polymerization Technique and Its Application to NO2 Gas Sensors. Polymers, 2021, 13, 1783.	4.5	13
12	Synthesis and Properties of Thiophene and Aniline Copolymer Using Atmospheric Pressure Plasma Jets Copolymerization Technique. Polymers, 2020, 12, 2225.	4.5	12
13	In-Situ Iodine Doping Characteristics of Conductive Polyaniline Film Polymerized by Low-Voltage-Driven Atmospheric Pressure Plasma. Polymers, 2021, 13, 418.	4.5	12
14	TOF-SIMS study on nano size conducting polymer prepared by simple atmospheric pressure plasma polymerization technique for display applications. Molecular Crystals and Liquid Crystals, 2017, 651, 16-25.	0.9	7
15	Mechanism of permanent image sticking induced by ion bombardment and reduction method for ac plasma display panels. Applied Physics Letters, 2011, 99, 083503.	3.3	6
16	Experimental study on atmospheric pressure plasma polymerized conducting polymer under coupling and remote conditions. Molecular Crystals and Liquid Crystals, 2018, 663, 108-114.	0.9	6
17	Effects of iodine dopant on atmospheric pressure plasma polymerized pyrrole in remote and coupling methods. Molecular Crystals and Liquid Crystals, 2018, 677, 135-142.	0.9	5
18	Effects of a Dielectric Barrier Discharge (DBD) on Characteristics of Polyaniline Nanoparticles Synthesized by a Solution Plasma Process with an Ar Gas Bubble Channel. Polymers, 2020, 12, 1939.	4.5	5

#	Article	IF	Citations
19	Improvement of the Uniformity and Electrical Properties of Polyaniline Nanocomposite Film by Addition of Auxiliary Gases during Atmospheric Pressure Plasma Polymerization. Nanomaterials, 2021, 11, 2315.	4.1	5
20	Potential Application of Pin-to-Liquid Dielectric Barrier Discharge Structure in Decomposing Aqueous Phosphorus Compounds for Monitoring Water Quality. Materials, 2021, 14, 7559.	2.9	5
21	Temperature-Adaptive Driving Waveform With Multiscan High Voltages for Stable Address Discharge in AC Plasma Display Panel. IEEE Transactions on Electron Devices, 2010, 57, 3123-3130.	3.0	4
22	Improvement of stability of sinusoidally driven atmospheric pressure plasma jet using auxiliary bias voltage. AIP Advances, 2015, 5, 127141.	1.3	4
23	Preparation and synthesis of carbon nanomaterials from 1-hexanol by solution plasma process with Ar/O₂ gas bubbles. Molecular Crystals and Liquid Crystals, 2019, 678, 20-32.	0.9	4
24	Influences of post-heating treatment on crystalline phases of PVDF thin films prepared by atmospheric pressure plasma deposition. Molecular Crystals and Liquid Crystals, 2019, 678, 9-19.	0.9	4
25	Reduction of Permanent Image Sticking in AC Plasma Display Panel Using Negative Sustain Waveform. Molecular Crystals and Liquid Crystals, 2011, 551, 104-115.	0.9	3
26	Effects of RF-Plasma Pretreatment on Panel-Aging Characteristics in AC Plasma Display Panel with Full-HD Cell Size. Molecular Crystals and Liquid Crystals, 2011, 551, 95-103.	0.9	3
27	A New Reset Waveform for Stable Discharge Under Variable Panel Temperatures in AC-Plasma Display Panel. Molecular Crystals and Liquid Crystals, 2011, 551, 86-94.	0.9	3
28	Improvement of luminous efficiency using LI-doped MgO layer coated by MgCaO crystal powders in plasma display panels. Molecular Crystals and Liquid Crystals, 2017, 645, 130-137.	0.9	3
29	Experimental study on permanent image sticking of single and double barrier ribs in alternating-current plasma display panel. Molecular Crystals and Liquid Crystals, 2017, 645, 112-122.	0.9	3
30	Experimental study on solid electrolyte interphase of graphite electrode in Li-ion battery by surface analysis technique. Molecular Crystals and Liquid Crystals, 2018, 663, 158-167.	0.9	3
31	Synthesis and characterization of poly(pyrrole-co-aniline) copolymer using atmospheric pressure plasma polymerization. Molecular Crystals and Liquid Crystals, 2022, 733, 103-113.	0.9	3
32	Improvement of Nanostructured Polythiophene Film Uniformity Using a Cruciform Electrode and Substrate Rotation in Atmospheric Pressure Plasma Polymerization. Nanomaterials, 2022, 12, 32.	4.1	3
33	Pâ€94: Experimental Study on Reduction of Temporal Image Sticking Using Positive Biasedâ€and Floatedâ€Address Waveforms During Sustain Period in ACâ€PDP with MgCaO Protective Layer. Digest of Technical Papers SID International Symposium, 2011, 42, 1462-1464.	0.3	2
34	Investigation of plasma polymerized pyrrole under various gas flow rates and input power using atmospheric pressure plasma jets. Molecular Crystals and Liquid Crystals, 2017, 651, 26-34.	0.9	2
35	Synthesis of carbon materials by solution plasma reactor with stable discharge and advanced plasma spray deposition method. Molecular Crystals and Liquid Crystals, 2018, 663, 115-123.	0.9	2
36	Characteristics of polyaniline nanoparticles prepared by electrochemical solution plasma process for flexible devices. Molecular Crystals and Liquid Crystals, 2022, 733, 114-124.	0.9	2

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37	Improvement of Temporal Image Sticking Characteristics Using Negative Sustain Waveform in AC Plasma Display Panel. IEEE Transactions on Plasma Science, 2012, 40, 1350-1355.	1.3	1
38	Effects of Gas Pressure on Temporal Image Sticking in AC Plasma Display Panel. Molecular Crystals and Liquid Crystals, 2012, 564, 67-75.	0.9	1
39	The Influence of the Defect States on the Secondary Electron Emission from the Mg1-xBexO Protective Layer of AC Plasma Display Panels. Molecular Crystals and Liquid Crystals, 2012, 564, 43-49.	0.9	1
40	Effects of Positive-Biased Conditions of Address Electrode During Sustain Discharge on Permanent Image Sticking in AC Plasma Display Panel. IEEE Journal of Quantum Electronics, 2012, 48, 783-789.	1.9	1
41	Optical, electrical, and structural studies of atmospheric pressure plasma polymerized and iodine-doped nano size polyaniline. , 2016, , .		1
42	Investigation for the effect of redeposited Mg particles on the discharge characteristics in an alternating-current plasma display panel. Molecular Crystals and Liquid Crystals, 2017, 645, 65-71.	0.9	1
43	Influence of overlapped sustain waveform on panel-aging characteristics based on MgO surface morphology variation in alternating-current plasma display panel. Molecular Crystals and Liquid Crystals, 2017, 645, 72-80.	0.9	1
44	Voltage Margin and Luminous Efficiency by Changing Positive and Negative Sustain Voltage in AC Plasma Display Panel. Molecular Crystals and Liquid Crystals, 2018, 677, 143-152.	0.9	1
45	Influences of graphite electrode on degradation induced by accelerated chargingâ€“discharging cycling in lithium-ion battery. Molecular Crystals and Liquid Crystals, 2018, 663, 90-98.	0.9	1
46	Synthesis of polyvinylidene fluoride film using novel atmospheric pressure plasma deposition with direct-injection nozzle. Molecular Crystals and Liquid Crystals, 0, , 1-9.	0.9	1
47	Numerical Analysis and Experiment on Discharge Characteristics Under Various Address Electrode Widths in AC Plasma Display Panel. Molecular Crystals and Liquid Crystals, 2012, 564, 56-66.	0.9	0
48	Analysis on discharge characteristics of MgCaO crystal powders on Li-doped MgO layer in AC plasma display panels. , 2012, , .		0
49	Short pulse type dual sustain discharge waveform for improving discharge efficiency in microdischarge cell. , 2012, , .		0
50	Influences of He Contents and Panel Working Gas Pressures in Ternary Gas Mixture on Discharge Characteristics in AC Plasma Display Panel. Molecular Crystals and Liquid Crystals, 2012, 564, 76-84.	0.9	0
51	Temporal Bright and Dark Image Sticking Phenomena of Counter-type Electrodes with Parallel Electric Field in AC-PDP. Molecular Crystals and Liquid Crystals, 2012, 564, 94-103.	0.9	0
52	Influence of Surface Contamination on the Electrical Breakdown between Ag Electrodes in AC Plasma Display Panels. Molecular Crystals and Liquid Crystals, 2013, 585, 34-40.	0.9	0
53	Effects of Operating Frequency on Panel-Aging and Discharge Characteristics in AC Plasma Display Panel. Molecular Crystals and Liquid Crystals, 2013, 585, 41-49.	0.9	0
54	Influences of MgO Thicknesses Variation on Degradation Characteristics during Long-term Discharge in Microdischarge Cells. Molecular Crystals and Liquid Crystals, 2015, 617, 109-118.	0.9	0

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55	Simulated results of plasma discharge in AC plasma display panel with asymmetric electrode. Molecular Crystals and Liquid Crystals, 2017, 651, 189-195.	0.9	0
56	Discharge and structural characteristics of MgO thin films under various O2 and H2 gas flow rates during MgO deposition when using ion plating method in microdischarge cells. Molecular Crystals and Liquid Crystals, 2017, 645, 123-129.	0.9	0
57	Analysis on electron emission characteristics of MgO layer with MgO crystal powder under various panel temperatures in ac-plasma display panels. Molecular Crystals and Liquid Crystals, 2017, 645, 102-111.	0.9	0
58	Microplasma Jet Device For Plasma Thruster. , 2017, , .		0
59	Atmospheric Pressure Plasma Sources for Plasma Polymerization and Large Area Treatment. , 2017, , .		0
60	Effecs of Bubble Control on Synthesis and Characterization of Carbon Nanoparticle in AC Solution Plasma. , 2017, , .		0
61	Study on overlap scan waveform for low write voltage in AC plasma display panel. Molecular Crystals and Liquid Crystals, 2018, 663, 124-131.	0.9	0
62	Modified driving waveform for improving write discharge characteristics in open dielectric structure of AC PDP. Molecular Crystals and Liquid Crystals, 2018, 663, 132-142.	0.9	0
63	Development of Sensors for On-Site Analysis of Total Dissolved Phosphorus in Natural Waters. , 2019, , .		0
64	A Directional Microplasma Thruster Exhibiting a Switchable Intense Plasma Coupling. IEEE Access, 2020, 8, 104269-104280.	4.2	0
65	Characteristics of PVDF Polymer Films Synthesized by Atmospheric Pressure Plasma Polymerization for Flexible Nanogenerator Applications. , 2018, , .		0
66	Analysis on Intense and Broaden Atmospheric Pressure Plasma for Large Area Surface Modification. , 2018, , .		0
67	Properties of Water-Pretreatment by Atmospheric Pressure Microplasma Discharge Using Nanopulse for Portable Device Applications. , 2018, , .		0
68	Room-Temperature NO2 Sensors of Polyphiophene Films by Atmospheric Pressure Plasma Polymerization Technique. , 2018, , .		0