

# Young-Chang Joo

## List of Publications by Year in descending order

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129  
papers

3,392  
citations

159358

30  
h-index

161609

54  
g-index

129  
all docs

129  
docs citations

129  
times ranked

5054  
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly efficient and bending durable perovskite solar cells: toward a wearable power source. <i>Energy and Environmental Science</i> , 2015, 8, 916-921.	15.6	602
2	A Strain-Insensitive Stretchable Electronic Conductor: PEDOT:PSS/Acrylamide Organogels. <i>Advanced Materials</i> , 2016, 28, 1636-1643.	11.1	241
3	Electrochemical upgrade of CO <sub>2</sub> from amine capture solution. <i>Nature Energy</i> , 2021, 6, 46-53.	19.8	129
4	A new hematite photoanode doping strategy for solar water splitting: oxygen vacancy generation. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 2117.	1.3	126
5	Quasi-graphitic carbon shell-induced Cu confinement promotes electrocatalytic CO <sub>2</sub> reduction toward C <sub>2</sub> + products. <i>Nature Communications</i> , 2021, 12, 3765.	5.8	99
6	Tailoring of Electron-Collecting Oxide Nanoparticulate Layer for Flexible Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 1845-1851.	2.1	93
7	Long-term reliable physical health monitoring by sweat pore-inspired perforated electronic skins. <i>Science Advances</i> , 2021, 7, .	4.7	89
8	Crack nucleation during mechanical fatigue in thin metal films on flexible substrates. <i>Acta Materialia</i> , 2013, 61, 3473-3481.	3.8	76
9	An iron oxide photoanode with hierarchical nanostructure for efficient water oxidation. <i>Journal of Materials Chemistry A</i> , 2014, 2, 2297-2305.	5.2	72
10	Temperature Effect on Intermetallic Compound Growth Kinetics of Cu Pillar/Sn Bumps. <i>Journal of Electronic Materials</i> , 2009, 38, 2228-2233.	1.0	70
11	Microstructure Evolution and Defect Formation in Cu Through-Silicon Vias (TSVs) During Thermal Annealing. <i>Journal of Electronic Materials</i> , 2012, 41, 712-719.	1.0	67
12	Electromigration-induced transgranular failure mechanisms in single-crystal aluminum interconnects. <i>Journal of Applied Physics</i> , 1997, 81, 6062-6072.	1.1	62
13	Stretching-Induced Growth of PEDOT-Rich Cores: A New Mechanism for Strain-Dependent Resistivity Change in PEDOT:PSS Films. <i>Advanced Functional Materials</i> , 2013, 23, 4020-4027.	7.8	54
14	A Stretchable Ionic Diode from Copolyelectrolyte Hydrogels with Methacrylated Polysaccharides. <i>Advanced Functional Materials</i> , 2019, 29, 1806909.	7.8	52
15	Intermetallic Compound Growth and Reliability of Cu Pillar Bumps Under Current Stressing. <i>Journal of Electronic Materials</i> , 2010, 39, 2281-2285.	1.0	49
16	Tunable Sn structures in porosity-controlled carbon nanofibers for all-solid-state lithium-ion battery anodes. <i>Journal of Materials Chemistry A</i> , 2015, 3, 11021-11030.	5.2	49
17	Fatigue-Free, Electrically Reliable Copper Electrode with Nanohole Array. <i>Small</i> , 2012, 8, 3300-3306.	5.2	48
18	Ion-to-ion amplification through an open-junction ionic diode. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 13807-13815.	3.3	46

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19	Synthetic Mechanism Discovery of Monophase Cuprous Oxide for Record High Photoelectrochemical Conversion of CO <sub>2</sub> to Methanol in Water. <i>ACS Nano</i> , 2018, 12, 8187-8196.	7.3	44
20	Bending Strain and Bending Fatigue Lifetime of Flexible Metal Electrodes on Polymer Substrates. <i>Materials</i> , 2019, 12, 2490.	1.3	44
21	Effect of film thickness on the stretchability and fatigue resistance of Cu films on polymer substrates. <i>Journal of Materials Research</i> , 2014, 29, 2827-2834.	1.2	43
22	Thermodynamically driven self-formation of copper-embedded nitrogen-doped carbon nanofiber catalysts for a cascade electroreduction of carbon dioxide to ethylene. <i>Journal of Materials Chemistry A</i> , 2020, 8, 11632-11641.	5.2	42
23	Nanofiber Channel Organic Electrochemical Transistors for Low-Power Neuromorphic Computing and Wide-Bandwidth Sensing Platforms. <i>Advanced Science</i> , 2021, 8, 2001544.	5.6	42
24	Computational wrapping: A universal method to wrap 3D-curved surfaces with nonstretchable materials for conformal devices. <i>Science Advances</i> , 2020, 6, eaax6212.	4.7	39
25	Effect of Ionization Characteristics on Electrochemical Migration Lifetimes of Sn-3.0Ag-0.5Cu Solder in NaCl and Na <sub>2</sub> SO <sub>4</sub> Solutions. <i>Journal of Electronic Materials</i> , 2008, 37, 1111-1118.	1.0	38
26	Improved mechanical performance of solution-processed MWCNT/Ag nanoparticle composite films with oxygen-pressure-controlled annealing. <i>Carbon</i> , 2012, 50, 98-106.	5.4	37
27	Reliability Issues and Solutions in Flexible Electronics Under Mechanical Fatigue. <i>Electronic Materials Letters</i> , 2018, 14, 387-404.	1.0	37
28	Structural-relaxation-driven electron doping of amorphous oxide semiconductors by increasing the concentration of oxygen vacancies in shallow-donor states. <i>NPG Asia Materials</i> , 2016, 8, e250-e250.	3.8	35
29	Effect of Bias Voltage on the Electrochemical Migration Behaviors of Sn and Pb. <i>IEEE Transactions on Device and Materials Reliability</i> , 2009, 9, 483-488.	1.5	34
30	Growth Mechanism of Strain-Dependent Morphological Change in PEDOT:PSS Films. <i>Scientific Reports</i> , 2016, 6, 25332.	1.6	33
31	High performance Zn-Sn-O thin film transistors with Cu source/drain electrode. <i>Physica Status Solidi - Rapid Research Letters</i> , 2013, 7, 196-198.	1.2	30
32	Effects of bending fatigue on the electrical resistance in metallic films on flexible substrates. <i>Metals and Materials International</i> , 2010, 16, 947-951.	1.8	27
33	Densely charged polyelectrolyte-stuffed nanochannel arrays for power generation from salinity gradient. <i>Scientific Reports</i> , 2016, 6, 26416.	1.6	26
34	Selective crack suppression during deformation in metal films on polymer substrates using electron beam irradiation. <i>Nature Communications</i> , 2019, 10, 4454.	5.8	26
35	One-step structure modulation of electrospun metal-loaded carbon nanofibers: Redox reaction controlled calcination. <i>Carbon</i> , 2015, 82, 273-281.	5.4	24
36	Predictive fabrication of Ni phosphide embedded in carbon nanofibers as active and stable electrocatalysts. <i>Journal of Materials Chemistry A</i> , 2019, 7, 7451-7458.	5.2	24

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37	Designing thermal and electrochemical oxidation processes for $\gamma$ -MnO <sub>2</sub> nanofibers for high-performance electrochemical capacitors. <i>Journal of Materials Chemistry A</i> , 2014, 2, 7197-7204.	5.2	23
38	Metal-organic Framework-driven Porous Cobalt Disulfide Nanoparticles Fabricated by Gaseous Sulfurization as Bifunctional Electrocatalysts for Overall Water Splitting. <i>Scientific Reports</i> , 2019, 9, 19539.	1.6	23
39	Electrochemical carbon dioxide reduction on copper-zinc alloys: ethanol and ethylene selectivity analysis. <i>Journal of Materials Chemistry A</i> , 2022, 10, 9393-9401.	5.2	23
40	Coupled self-assembled monolayer for enhancement of Cu diffusion barrier and adhesion properties. <i>RSC Advances</i> , 2014, 4, 60123-60130.	1.7	22
41	Electrochemical Migration Characteristics of Eutectic Sn-Pb Solder Alloy in NaCl and Na <sub>2</sub> SO <sub>4</sub> Solutions. <i>Journal of Electronic Materials</i> , 2009, 38, 691-699.	1.0	21
42	Interfacial Reaction Effect on Electrical Reliability of Cu Pillar/Sn Bumps. <i>Journal of Electronic Materials</i> , 2010, 39, 2368-2374.	1.0	20
43	A Bendable Li-ion Battery with a Nano-Hairy Electrode: Direct Integration Scheme on the Polymer Substrate. <i>Advanced Energy Materials</i> , 2015, 5, 1400611.	10.2	19
44	Electrical and Mechanical Properties of Through-Silicon Vias and Bonding Layers in Stacked Wafers for 3D Integrated Circuits. <i>Journal of Electronic Materials</i> , 2012, 41, 232-240.	1.0	18
45	Evolution of Electromigration-Induced Voids in Single Crystalline Aluminum Lines with Different Crystallographic Orientations. <i>Materials Research Society Symposia Proceedings</i> , 1993, 309, 351.	0.1	17
46	Investigation of crystallization behaviors of nitrogen-doped Ge <sub>2</sub> Sb <sub>2</sub> Te <sub>5</sub> films by thermomechanical characteristics. <i>Applied Physics Letters</i> , 2009, 94, 061904.	1.5	16
47	Composition, Microstructure, and Electrical Performance of Sputtered SnO Thin Films for p-Type Oxide Semiconductor. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 3810-3821.	4.0	16
48	Effects of Wafer Cleaning and Annealing on Glass/Silicon Wafer Direct Bonding. <i>Journal of Electronic Packaging</i> , Transactions of the ASME, 2004, 126, 120-123.	1.2	15
49	Effect of isothermal aging on intermetallic compounds and Kirkendall void growth kinetics of Au stud bumps. <i>Metals and Materials International</i> , 2009, 15, 819-823.	1.8	15
50	Influences of semiconductor morphology on the mechanical fatigue behavior of flexible organic electronics. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	15
51	Extremely Versatile Deformability beyond Materiality: A New Material Platform through Simple Cutting for Rugged Batteries. <i>Advanced Engineering Materials</i> , 2019, 21, 1900206.	1.6	15
52	Line length dependence of threshold current density and driving force in eutectic SnPb and SnAgCu solder electromigration. <i>Journal of Applied Physics</i> , 2008, 103, 073701.	1.1	14
53	Controlled Molybdenum Disulfide Assembly inside Carbon Nanofiber by Boudouard Reaction Inspired Selective Carbon Oxidation. <i>Advanced Materials</i> , 2017, 29, 1605327.	11.1	14
54	Photoelectrochemical CO <sub>2</sub> Reduction via Cu <sub>2</sub> O/CuFeO <sub>2</sub> Hierarchical nanorods photocatalyst. <i>ChemCatChem</i> , 2020, 12, 5185-5191.	1.8	14

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55	Effect of Capping Layer on Hillock Formation in Thin Al Films. <i>Metals and Materials International</i> , 2008, 14, 147-150.	1.8	13
56	Gaseous Nanocarving-Mediated Carbon Framework with Spontaneous Metal Assembly for Structure-Tunable Metal/Carbon Nanofibers. <i>Advanced Materials</i> , 2017, 29, 1702958.	11.1	13
57	Thermomechanical In Situ Monitoring of Bi <sub>2</sub> Te <sub>3</sub> Thin Film and Its Relationship with Microstructure and Thermoelectric Performances. <i>Electronic Materials Letters</i> , 2018, 14, 426-431.	1.0	13
58	PEDOT:PSS/Polyacrylamide Nanoweb: Highly Reliable Soft Conductors with Swelling Resistance. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 10099-10107.	4.0	13
59	Hydrogel-Based Iontronics on a Polydimethylsiloxane Microchip. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 6606-6614.	4.0	13
60	Relationship between grain structures and texture of damascene Cu lines. <i>Journal of Electronic Materials</i> , 2004, 33, 48-52.	1.0	12
61	In-Situ Observation of Electromigration in Eutectic SnPb Solder Lines: Atomic Migration and Hillock Formation. <i>Journal of Electronic Materials</i> , 2007, 36, 562-567.	1.0	12
62	Microstructure evolution in Cu pillar/eutectic SnPb solder system during isothermal annealing. <i>Metals and Materials International</i> , 2009, 15, 815-818.	1.8	12
63	The effect of energetically coated ZrO <sub>x</sub> on enhanced electrochemical performances of Li(Ni <sub>1/3</sub> Co <sub>1/3</sub> Mn <sub>1/3</sub> )O <sub>2</sub> cathodes using modified radio frequency (RF) sputtering. <i>Journal of Materials Chemistry A</i> , 2015, 3, 12982-12991.	5.2	12
64	Electromigration Characteristics and Morphological Evolution of Cu Interconnects on CVD Co and Ru Liners for 10-nm Class VLSI Technology. <i>IEEE Electron Device Letters</i> , 2018, 39, 1050-1053.	2.2	12
65	Bonding structure and etching characteristics of amorphous carbon for a hardmask deposited by DC sputtering. <i>Carbon</i> , 2019, 154, 277-284.	5.4	12
66	Anion Extraction-Induced Polymorph Control of Transition Metal Dichalcogenides. <i>Nano Letters</i> , 2019, 19, 8644-8652.	4.5	12
67	Effect of the composition of Sn-Pb alloys on the microstructure of filaments and the electrochemical migration characteristics. <i>Metals and Materials International</i> , 2011, 17, 617-621.	1.8	11
68	Improvement of Electrochemical Migration Resistance by Cu/Sn Intermetallic Compound Barrier on Cu in Printed Circuit Board. <i>IEEE Transactions on Device and Materials Reliability</i> , 2014, 14, 382-389.	1.5	11
69	Improved Battery Performance of Nanocrystalline Si Anodes Utilized by Radio Frequency (RF) Sputtered Multifunctional Amorphous Si Coating Layers. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 2242-2248.	4.0	11
70	Three-dimensional simulation of microstructure evolution in damascene interconnects: Effect of overburden thickness. <i>Journal of Electronic Materials</i> , 2005, 34, 559-563.	1.0	10
71	Measurement of Poisson's Ratio of a Thin Film on a Substrate by Combining X-Ray Diffraction with in situ Substrate Bending. <i>Electronic Materials Letters</i> , 2009, 5, 51-54.	1.0	10
72	Electrochemical oxidation of boron-doped nickel-iron layered double hydroxide for facile charge transfer in oxygen evolution electrocatalysts. <i>RSC Advances</i> , 2021, 11, 8198-8206.	1.7	10

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73	New pathway for the formation of metallic cubic phase Ge-Sb-Te compounds induced by an electric current. <i>Scientific Reports</i> , 2016, 6, 21466.	1.6	9
74	Effect of twisting fatigue on the electrical reliability of a metal interconnect on a flexible substrate. <i>Journal of Materials Research</i> , 2018, 33, 138-148.	1.2	9
75	Dimensionality reduction and unsupervised clustering for EELS-SI. <i>Ultramicroscopy</i> , 2021, 231, 113314.	0.8	9
76	Effect of grain boundary energy on surface-energy induced abnormal grain growth in columnar-grained film. <i>Metals and Materials International</i> , 2002, 8, 1-5.	1.8	8
77	Fabrication of a hydrogen sensor using palladium-coated silver dendrites formed electrochemically. <i>Metals and Materials International</i> , 2010, 16, 789-792.	1.8	8
78	Improvements of mechanical fatigue reliability of Cu interconnects on flexible substrates through MoTi alloy under-layer. <i>Electronic Materials Letters</i> , 2015, 11, 149-154.	1.0	8
79	Cu Diffusion-Driven Dynamic Modulation of the Electrical Properties of Amorphous Oxide Semiconductors. <i>Advanced Functional Materials</i> , 2017, 27, 1700336.	7.8	8
80	Current-induced morphological evolution and reliability of Ag interconnects fabricated by a printing method based on nanoparticles. <i>RSC Advances</i> , 2017, 7, 9719-9723.	1.7	8
81	Thermally Stable Amorphous Oxide-based Schottky Diodes through Oxygen Vacancy Control at Metal/Oxide Interfaces. <i>Scientific Reports</i> , 2019, 9, 7872.	1.6	8
82	Rapid and Reliable Formation of Highly Densified Bilayer Oxide Dielectrics on Silicon Substrates via DUV Photoactivation for Low-Voltage Solution-Processed Oxide Thin-Film Transistors. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 2820-2828.	4.0	8
83	Intermetallic compound and Kirkendall void growth in Cu pillar bump during annealing and current stressing. , 2008, , .		7
84	Effects of film thickness and deposition rate on the diffusion barrier performance of titanium nitride in Cu-through silicon vias. <i>Electronic Materials Letters</i> , 2014, 10, 275-279.	1.0	7
85	Effect of Thermoelectric Leg Thickness in a Planar Thin Film TEC Device on Different Substrates. <i>Electronic Materials Letters</i> , 2019, 15, 686-692.	1.0	7
86	Operation Range-Optimized Silver Nanowire Through Junction Treatment. <i>Electronic Materials Letters</i> , 2020, 16, 491-497.	1.0	7
87	Direct observation and catalytic role of mediator atom in 2D materials. <i>Science Advances</i> , 2020, 6, eaba4942.	4.7	7
88	Planar-Radial Structured Thermoelectric Cooler for Local Hot Spot Cooling in Mobile Electronics. , 2020, , .		6
89	In Twisting Motion, Stress-Free Zone of Wearable Electronics. <i>Advanced Electronic Materials</i> , 2020, 6, 1901239.	2.6	6
90	Effect of microstructure on electrical and mechanical properties: Impurities of inkjet-printed Ag and Cu interconnects. , 2008, , .		5

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91	Effect of initial anodic dissolution current on the electrochemical migration phenomenon of Sn solder. , 2009, , .		5
92	Effect of effective modulus on hillock formations in Al lines on glass. Metals and Materials International, 2009, 15, 661-664.	1.8	5
93	Effects of dopings on the electric-field-induced atomic migration and void formation in Ge<math>\text{In}</math>2<math>\text{Sb}</math>2<math>\text{Te}</math>5<math>\text{In}</math>. , 2011, , .		5
94	Electromigration behavior of advanced metallization on the structural effects for memory devices. Microelectronic Engineering, 2016, 156, 97-102.	1.1	5
95	Effect of the Thermal Annealing on the Stretchability and Fatigue Failure of the Copper Film on the Polymer Substrate. Journal of Electronic Materials, 2019, 48, 4582-4588.	1.0	5
96	The dielectric material dependence of stress and stress relaxation on the mechanism of stress-voiding of CU interconnects. , 0, , .		4
97	Study of Cu Migration-Induced Failure of Inter-Layer Dielectric. , 2006, , .		4
98	The characteristics of Cu-drift induced dielectric breakdown under alternating polarity bias temperature stress. , 2009, , .		4
99	Electrical failure and damage analysis of multi-layer metal films on flexible substrate during cyclic bending deformation. , 2011, , .		4
100	Leakage Current Characteristic of Pre-Damaged Interlayer Dielectric During Voltage Ramp Method. , 2007, , .		3
101	Dendritic palladium-silver nano-structure grown by electrochemical migration method for hydrogen sensing device. , 2008, , .		3
102	Stable Interconnect System for Horizontal Thermoelectric Coolers by Thermodynamic-Based Prediction. Electronic Materials Letters, 2019, 15, 654-662.	1.0	3
103	Electrical Reliability and Bending Test Methodologies of Metal Electrode on Flexible Substrate. Journal of Nanoscience and Nanotechnology, 2020, 20, 470-477.	0.9	3
104	Measuring Thin Film Fracture Toughness Using the Indentation Sinking-in Effect and Focused Ion Beam. Materials Research Society Symposia Proceedings, 1999, 594, 389.	0.1	2
105	Porosity content dependence of TDDB lifetime and flat band voltage shift by cu diffusion in porous spin-on low-k. , 0, , .		2
106	Effect of Microstructure and Dielectric Materials on Stress-Induced Damages in Damascene Cu/Low-k Interconnects. Materials Research Society Symposia Proceedings, 2005, 863, B7.6-1.	0.1	2
107	Dominant Migration Element in Electrochemical Migration of Eutectic SnPb Solder Alloy. , 0, , .		2
108	Quantitative analysis of the size distributions and elements of the precipitates in Fe-3%Si alloy during secondary recrystallization annealing using HAADF imaging and XEDS. Metals and Materials International, 2009, 15, 113-118.	1.8	2

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109	Electrophoretic kinetics of concentrated TiO <sub>2</sub> nanoparticle suspensions in aprotic solvent. <i>Electronic Materials Letters</i> , 2018, 14, 79-82.	1.0	2
110	Thermodynamically driven self-formation of Ag nanoparticles in Zn-embedded carbon nanofibers for efficient electrochemical CO <sub>2</sub> reduction. <i>RSC Advances</i> , 2021, 11, 24702-24708.	1.7	2
111	Density Functional Theory Study of Edge-Induced Atomic-Scale Structural Phase Transitions of MoS <sub>2</sub> Nanocrystals: Implications for a High-Performance Catalyst. <i>ACS Applied Nano Materials</i> , 2021, 4, 5496-5502.	2.4	2
112	Fabrication of Ni Nanoparticle-Embedded Porous Carbon Nanofibers Through Selective Etching of Selectively Oxidized MgO. <i>Electronic Materials Letters</i> , 2022, 18, 198.	1.0	2
113	Electrical Reliability of Flexible Silicon Package Integrated on Polymer Substrate During Repeated Bending Deformations. <i>Journal of Electronic Packaging, Transactions of the ASME</i> , 2022, 144, .	1.2	2
114	Electromigration-Induced Stress Interaction between Via and Polygranular Cluster. <i>Materials Research Society Symposia Proceedings</i> , 2000, 612, 8111.	0.1	1
115	Stress Relaxation during Isothermal Annealing at Elevated Temperatures in Electroplated Cu Films. <i>Materials Research Society Symposia Proceedings</i> , 2003, 795, 328.	0.1	1
116	Electromigration-limited reliability of advanced metallization for memory devices. , 2015, , .		1
117	Electromigration behavior of eutectic SnPb solder. , 0, , .		0
118	The Simulation of Copper Drift in SiO <sub>2</sub> during Bias Temperature Stress (BTS) Test. <i>Materials Research Society Symposia Proceedings</i> , 2002, 731, 8171.	0.1	0
119	Effect of Dielectric Materials on Stress-Induced Damage Modes in Damascene Cu Lines. <i>Materials Research Society Symposia Proceedings</i> , 2003, 795, 403.	0.1	0
120	Effect of electromigration temperature on dominant migration and hillock phases of eutectic SnPb alloys. , 2006, , .		0
121	In-situ Study on the Effects of Temperature and Size on the Electromigration Characteristics of Eutectic SnPb and Pb-free Solder Alloys. , 2006, , .		0
122	In-situ Study on Effects of Annealing Temperature and Mo Interlayer on Stress Relaxation Behaviors of Pure Al Films on Glass Substrates. <i>Materials Research Society Symposia Proceedings</i> , 2006, 924, 1.	0.1	0
123	Effects of annealing and electromigration on intermetallic compound formation of Cu pillar bump. , 2007, , .		0
124	Reliability of Cu pillar bump for flip chip and 3-D SiP. , 2008, , .		0
125	Electromigration behavior of micro Sn bump under pulsed DC. , 2009, , .		0
126	Current stressing effects on the reliability of Cu pillar bump with shallow solder. , 2010, , .		0



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127	Successive breakdown mode of time-dependent dielectric breakdown for Cu interconnects and lifetime enhancement under dynamic bias stress. , 2018, , .		0
128	Phase Engineering of Transition Metal Dichalcogenides via a Thermodynamically Designed Gasâ€“Solid Reaction. Journal of Physical Chemistry Letters, 2021, 12, 8430-8439.	2.1	0
129	Grain Boundary Characteristics and Stress-induced Damage Morphologies in Sputtered and Electroplated Copper Films. Materials Research Society Symposia Proceedings, 2003, 766, 231.	0.1	0