List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Covalently formation of insulation and barrier layers in high aspect ratio TSVs. Applied Surface Science, 2022, 573, 151588.	3.1	8
2	Liner Sweep Voltammetry Electroplating Method to Synthesize Large Monocrystalline Cu Cones for Interconnection. Electronic Materials Letters, 2022, 18, 27-35.	1.0	1
3	Effects of W contents on the solid-state interfacial reactions of Sn/Co-W. Journal of Materials Science, 2022, 57, 1403-1415.	1.7	6
4	Application of electrodeposited Cu-metal nanoflake structures as 3D current collector in lithium-metal batteries. Nanotechnology, 2022, 33, 245406.	1.3	3
5	Sol–Gel-Derived Biodegradable Er-Doped ZnO/Polyethylene Glycol Nanoparticles for Cell Imaging. ACS Applied Nano Materials, 2022, 5, 7103-7112.	2.4	7
6	Ultralow Set Voltage and Enhanced Switching Reliability for Resistive Random-Access Memory Enabled by an Electrodeposited Nanocone Array. ACS Applied Materials & Interfaces, 2022, 14, 25710-25721.	4.0	10
7	Construction of liquid metal-based soft microfluidic sensors via soft lithography. Journal of Nanobiotechnology, 2022, 20, .	4.2	24
8	A carbon mixed amorphous-TiSx separator coating for lithium sulfur batteries. Materials Chemistry and Physics, 2021, 258, 123923.	2.0	6
9	Structural effect of inhibitors on adsorption and desorption behaviors during copper electroplating for through-silicon vias. Electrochimica Acta, 2021, 372, 137907.	2.6	12
10	Effect of leveler on electrical resistance and microstructural of electroplated copper after heat treatment. , 2021, , .		0
11	Impurity diffusion behavior study of electroplated copper films annealed by linear shaping laser mobile scanning system. Materials Letters, 2021, 292, 129446.	1.3	2
12	The Influence of Leveler on the Impurity Behavior of Electroplated Cu Films During Laser Annealing. Journal of the Electrochemical Society, 2021, 168, 062504.	1.3	1
13	Low-Temperature Insertion Bonding using Electroless Cu-Co-P Micro-Cones Array with Controllable Morphology. Electronic Materials Letters, 2021, 17, 459-470.	1.0	7
14	Communication—Fabrication of Vertical Nanotwinned Copper with (220) Texture by Direct Current Electrodeposition. Journal of the Electrochemical Society, 2021, 168, 082506.	1.3	7
15	Transient and Biocompatible Resistive Switching Memory Based on Electrochemicallyâ€Đeposited Zinc Oxide. Advanced Electronic Materials, 2021, 7, 2100322.	2.6	10
16	Chemical metallization of ultrathin polymer insulation film for through-silicon via application. Thin Solid Films, 2021, 734, 138842.	0.8	3
17	The Evolution of Microstructure and Resistance in Electroplated Copper Films by Linear Integrated Laser Scanning Annealing. Electronic Materials Letters, 2021, 17, 207-214.	1.0	5
18	Development of robust amphiphobic hierarchical structure on polymer substrate by thermal imprinting and sputter etching. Surface and Coatings Technology, 2021, 427, 127804.	2.2	1

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19	The influence of non-uniform copper oxide layer on tin whisker growth and tin whisker growth behavior in SnAg microbumps with small diameter. Materials Letters, 2020, 258, 126773.	1.3	8
20	Influence of intercolony boundary on corrosion behavior of electrodeposited Ni–W alloy for electronic connector applications. Materials Chemistry and Physics, 2020, 239, 121989.	2.0	6
21	Study on the relationship between Cu protrusion behavior and stresses evolution in the through-silicon via characterized by in-situ μ-Raman spectroscopy. Microelectronics Reliability, 2020, 115, 113949.	0.9	5
22	Sweat-activated biocompatible batteries for epidermal electronic and microfluidic systems. Nature Electronics, 2020, 3, 554-562.	13.1	99
23	In situ synthesis of a highly cross-linked polymethacrylimide ultrathin film on a silicon wafer with applicable dielectric, thermal, and mechanical properties. Thin Solid Films, 2020, 711, 138308.	0.8	2
24	Grafting of a porous polymethyl methacrylate (PMMA) film on the silicon surface with low dielectric constant. , 2020, , .		0
25	The performance and degradation process of a greenly synthesized transient heterojunction diode. Thin Solid Films, 2020, 712, 138312.	0.8	2
26	Two-Step Electrodeposited 3D Ni Nanocone Supported Au Nanoball Arrays as SERS Substrate. Journal of the Electrochemical Society, 2020, 167, 142502.	1.3	3
27	Transient Lightâ€Emitting Diodes Constructed from Semiconductors and Transparent Conductors that Biodegrade Under Physiological Conditions. Advanced Materials, 2019, 31, e1902739.	11.1	43
28	<b>Competitive Effect of Leveler's Electrochemical Behavior and Impurity on Electrical Resistance of Electroplated Copper</b> . Journal of the Electrochemical Society, 2019, 166, D577-D582.	1.3	11
29	Electroless Grafting of Polymer Insulation Layers in Through-Silicon Vias. ECS Journal of Solid State Science and Technology, 2019, 8, P591-P595.	0.9	2
30	Effects of 2-mercaptopyridine and Janus Green B as levelers on electrical resistance of electrodeposited copper thin film for interconnects. Thin Solid Films, 2019, 677, 39-44.	0.8	20
31	Applicable Superamphiphobic Ni/Cu Surface with High Liquid Repellency Enabled by the Electrochemical-Deposited Dual-Scale Structure. ACS Applied Materials & Interfaces, 2019, 11, 11106-11111.	4.0	19
32	Facile synthesis of petal-like nanocrystalline Co3O4 film using direct high-temperature oxidation. Journal of Materials Science, 2019, 54, 7922-7930.	1.7	8
33	Fast Determination of the Potential for Cu Superfilling Using a Nanoporous Electrode. , 2019, , .		0
34	Fabrication of superamphiphobic Cu surfaces using hierarchical surface morphology and fluorocarbon attachment facilitated by plasma activation. Applied Surface Science, 2019, 464, 140-145.	3.1	12
35	Battery-free, skin-interfaced microfluidic/electronic systems for simultaneous electrochemical, colorimetric, and volumetric analysis of sweat. Science Advances, 2019, 5, eaav3294.	4.7	497
36	Design of thermally stable insulation film by radical grafting poly(methylacrylic acid) on silicon surface. Applied Surface Science, 2019, 464, 627-635.	3.1	26

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37	Growth behavior of tin whisker on SnAg microbump under compressive stress. Scripta Materialia, 2018, 147, 114-118.	2.6	30
38	Diffusion barrier effect of Ta/Ti bilayer in organic dielectric/Cu interconnects. Thin Solid Films, 2018, 653, 113-118.	0.8	6
39	Effects of Sn grain size on intermetallic compounds formation in 5µm diameter Cu/Sn pillar bumps. Journal of Materials Science: Materials in Electronics, 2018, 29, 19484-19490.	1.1	8
40	Rapid Determination of the Electrodeposition Potential for Cu Superfilling Using a Nanocones Array Structured Electrode. Journal of the Electrochemical Society, 2018, 165, D339-D343.	1.3	5
41	Tunable resistance switching in solution processed chromium-doped strontium titanate nanoparticles films. Journal of Colloid and Interface Science, 2017, 494, 178-184.	5.0	16
42	Electrochemical deposition of Fe 3 O 4 nanoparticles and flower-like hierarchical porous nanoflakes on 3D Cu-cone arrays for rechargeable lithium battery anodes. Materials and Design, 2017, 121, 321-334.	3.3	17
43	Grafting and properties of a porous poly(methyl methacrylate) film on a silicon surface by a oneâ€step dipping method. Journal of Applied Polymer Science, 2017, 134, 44930.	1.3	4
44	Covalent Grafting of Tethered Homopolymer Film on p-Si(100). Langmuir, 2016, 32, 3746-3753.	1.6	9
45	One-Step Dipping Method for Covalently Grafting Polymer Films onto a Si Surface from Aqueous Media. Langmuir, 2016, 32, 8709-8716.	1.6	14
46	A View on Annealing Behavior of Cu-Filled Through-Silicon Vias (TSV). ECS Journal of Solid State Science and Technology, 2016, 5, P389-P392.	0.9	9
47	Grafting of PMMA brushes layer on Cu surface to create a stable superhydrophobic surface. Applied Surface Science, 2016, 386, 309-318.	3.1	14
48	A low-temperature solid-state bonding method based on copper bump coated with nickel microcones and silver buffer. Materials Letters, 2016, 181, 165-168.	1.3	6
49	Electrodeposition of High Density Silver Nanosheets with Controllable Morphologies Served as Effective and Reproducible SERS Substrates. Langmuir, 2016, 32, 3385-3392.	1.6	24
50	Morphologies and wetting properties of copper film with 3D porous micro-nano hierarchical structure prepared by electrochemical deposition. Applied Surface Science, 2016, 372, 7-12.	3.1	31
51	Three-dimensional porous nickel supported Sn–O–C composite thin film as anode material for lithium-ion batteries. RSC Advances, 2015, 5, 31275-31281.	1.7	8
52	High-performance Si-based 3D Cu nanostructured electrode assembly for rechargeable lithium batteries. Journal of Materials Chemistry A, 2015, 3, 11912-11919.	5.2	36
53	Wetting process of copper filling in through silicon vias. Applied Surface Science, 2015, 359, 736-741.	3.1	10
54	Microstructure evolution of Ag–8Au–3Pd alloy wire during electromigration. Materials Characterization, 2015, 110, 44-51.	1.9	14

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55	Effects of Ni–W(Au) coated Cu microcones on the bonding interfaces. Applied Surface Science, 2015, 353, 774-780.	3.1	13
56	Three-Dimensional Hierarchical Nanostructured Cu/Ni–Co Coating Electrode for Hydrogen Evolution Reaction in Alkaline Media. Nano-Micro Letters, 2015, 7, 347-352.	14.4	21
57	Bioinspired Multifunctional Au Nanostructures with Switchable Adhesion. Langmuir, 2015, 31, 10850-10858.	1.6	26
58	Quasiâ€Periodical 3D Hierarchical Silver Nanosheets with Subâ€10 nm Nanogap Applied as an Effective and Applicable SERS Substrate. Advanced Materials Interfaces, 2015, 2, 1500359.	1.9	5
59	Electroless Silver Coating on Copper Microcones for Low-Temperature Solid-State Bonding. Journal of Electronic Materials, 2015, 44, 4516-4524.	1.0	13
60	Electrodeposition and characterization of copper nanocone structures. CrystEngComm, 2015, 17, 868-876.	1.3	41
61	Electrodeposited nanostructured cobalt film and its dual modulation of both superhydrophobic property and adhesiveness. Applied Surface Science, 2015, 324, 319-323.	3.1	35
62	Linear Sweep Voltammetric Study on the Copper Electrodeposition of Though-Silicon-Vias. Journal of the Electrochemical Society, 2014, 161, D349-D352.	1.3	23
63	IMC Growth at the Interface of Sn–2.0Ag–2.5Zn Solder Joints with Cu, Ni, and Ni–W Substrates. Journal of Electronic Materials, 2014, 43, 4119-4125.	1.0	4
64	Study of gold wire bonding on 0.1 μm soft gold film substrate. , 2014, , .		1
65	Behavior of intermetallics formation and evolution in Ag–8Au–3Pd alloy wire bonds. Journal of Alloys and Compounds, 2014, 588, 622-627.	2.8	28
66	Formation and growth of interfacial intermetallic layers of Sn–8Zn–3Bi–0.3Cr on Cu, Ni and Ni–W substrates. Microelectronics Reliability, 2014, 54, 245-251.	0.9	4
67	Study on the behaviors of Cu filling in special through-silicon-vias by the simulation of electric field distribution. Microelectronic Engineering, 2014, 116, 1-5.	1.1	7
68	Hollow nitrogen-doped carbon spheres as efficient and durable electrocatalysts for oxygen reduction. Chemical Communications, 2014, 50, 9473-9476.	2.2	88
69	Preparation and characterization of nickel–cobalt alloy nanostructures array fabricated by electrodeposition. CrystEngComm, 2014, 16, 6937.	1.3	52
70	Lotus leaf-like dual-scale silver film applied as a superhydrophobic and self-cleaning substrate. Chemical Communications, 2014, 50, 8405-8407.	2.2	54
71	High-adhesive superhydrophobic 3D nanostructured silver films applied as sensitive, long-lived, reproducible and recyclable SERS substrates. Nanoscale, 2014, 6, 9720.	2.8	45
72	Electrodeposited three-dimensional porous Si–O–C/Ni thick film as high performance anode for lithium-ion batteries. Journal of Power Sources, 2014, 272, 794-799.	4.0	15

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73	Electrochemical impedance analysis of electrodeposited Si–O–C composite thick film on Cu microcones-arrayed current collector for lithium ion battery anode. Journal of Power Sources, 2014, 256, 226-232.	4.0	34
74	Study of free air ball formation in Ag–8Au–3Pd alloy wire bonding. Microelectronics Reliability, 2014, 54, 2550-2554.	0.9	10
75	Solid state diffusion between Sn and Cu microcones on Cu microcones. Journal of Alloys and Compounds, 2014, 582, 408-413.	2.8	15
76	A facile process for preparing superhydrophobic nickel films with stearic acid. Surface and Coatings Technology, 2013, 231, 88-92.	2.2	50
77	Enhanced Ni3Sn4 nucleation and suppression of metastable NiSn3 in the solid state interfacial reactions between Sn and cone-structured Ni. CrystEngComm, 2013, 15, 10490.	1.3	6
78	Silicon composite thick film electrodeposited on a nickel micro-nanocones hierarchical structured current collector for lithium batteries. Journal of Power Sources, 2013, 222, 503-509.	4.0	39
79	Electrochemical impedance spectroscopy analysis for lithium-ion battery using Li4Ti5O12 anode. Journal of Power Sources, 2013, 222, 442-447.	4.0	92
80	Effect of W addition on the electroless deposited NiP(W) barrier layer. Applied Surface Science, 2013, 282, 632-637.	3.1	10
81	Formation of SnAg solder bump by multilayer electroplating. Microelectronic Engineering, 2013, 106, 33-37.	1.1	11
82	Effect of electroplating layer structure on shear property and microstructure of multilayer electroplated Sn–3.5Ag solder bumps. Microelectronics Reliability, 2013, 53, 321-326.	0.9	11
83	Anti-wetting Cu/Cr coating with micro-posts array structure fabricated by electrochemical approaches. Applied Surface Science, 2013, 271, 369-372.	3.1	16
84	Highly durable non-sticky silver film with a microball-nanosheet hierarchical structure prepared by chemical deposition. Chemical Communications, 2013, 49, 10391-10393.	2.2	19
85	Behaviors of Chloride Ions in Methanesulfonic Acid Bath for Copper Electrodeposition of Through-Silicon-Via. Journal of the Electrochemical Society, 2013, 160, D146-D149.	1.3	29
86	Low temperature bonding with metallic micro-cones for 3D integration. , 2012, , .		1
87	Low-Temperature Solid State Bonding of Sn and Nickel Micro Cones for Micro Interconnection. ECS Solid State Letters, 2012, 1, P7-P10.	1.4	23
88	Electroless plating copper cones on leadframe to improve the adhesion with epoxy molding compound. , 2012, , .		3
89	Influence of PEG molecular weight on morphology, structure and wettability of electroless deposited Cu–Ni–P films. Applied Surface Science, 2012, 258, 8814-8818.	3.1	26
90	Structure and wettability control of Cu–Ni–P alloy synthesized by electroless deposition. Journal of Alloys and Compounds, 2012, 538, 144-152.	2.8	17

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91	Preparation of super-hydrophobic Cu/Ni coating with micro-nano hierarchical structure. Materials Letters, 2012, 67, 327-330.	1.3	103
92	Effect of Mg doping on the hydrogen-sensing characteristics of ZnO thin films. Sensors and Actuators B: Chemical, 2011, 160, 266-270.	4.0	78
93	Wetting process of electrolyte in high density Cu/Sn micro-bumps electrodepositing. Applied Surface Science, 2011, 257, 3723-3727.	3.1	4
94	Super-hydrophobic nickel films with micro-nano hierarchical structure prepared by electrodeposition. Applied Surface Science, 2010, 256, 2400-2404.	3.1	163
95	Growth Mechanism and Field Emission Properties of Nickel Nanocones Array Fabricated by One-Step Electrodeposition. Journal of the Electrochemical Society, 2010, 157, D624.	1.3	44
96	Structural control of a cobalt nanocone array grown by directional electrodeposition. CrystEngComm, 2010, 12, 2799.	1.3	35
97	Controlled crystallization of glass–ceramics with two nucleating agents. Materials Characterization, 2009, 60, 1529-1533.	1.9	31
98	Effect of a trace of Cr on intermetallic compound layer for tin–zinc lead-free solder joint during aging. Journal of Alloys and Compounds, 2009, 470, 429-433.	2.8	31
99	Performances of CaSiO3 ceramic sintered by Spark plasma sintering. Materials Characterization, 2008, 59, 256-260.	1.9	26
100	Long lasting behavior of Gd2O2S:Eu3+ phosphor synthesized by hydrothermal routine. Materials Chemistry and Physics, 2008, 107, 142-147.	2.0	34
101	Characterization of nickel nanocones routed by electrodeposition without any template. Nanotechnology, 2008, 19, 035201.	1.3	93
102	Study on the Adhesion Between Epoxy Molding Compound and Nanocone-Arrayed Pd Preplated Leadframes. Journal of Electronic Materials, 2007, 36, 1594-1598.	1.0	21
103	Diffusion barrier performance of W/Ta–W–N double layers for Cu metallization. Microelectronic Engineering, 2006, 83, 423-427.	1.1	14
104	Effects of process parameters on bondability in ultrasonic ball bonding. Scripta Materialia, 2006, 54, 293-297.	2.6	47
105	Fluorineâ€Free Nanoporous Low―k Dielectric Film Covalently Grafted on Si via Aryldiazonium Chemistry. Advanced Materials Interfaces, 0, , 2101127.	1.9	4