Masato Sone

List of Publications by Year
in descending order

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220	3,561	172386	182361
papers	citations	29 h-index	51 g-index

222	222	222	2764
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mechanistic Insights into Photodegradation of Organic Dyes Using Heterostructure Photocatalysts. Catalysts, 2019, 9, 430.	1.6	520
2	Origin of Helix in Achiral Banana-Shaped Molecular Systems. Japanese Journal of Applied Physics, 1997, 36, 6455-6463.	0.8	269
3	Evaluation of the block boundary and sub-block boundary strengths of ferrous lath martensite using a micro-bending test. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 7538-7544.	2.6	164
4	Rigid-rod polyesters with flexible side chains. 4. Thermotropic behavior and phase structures in polyesters based on 1,4-dialkyl esters of pyromellitic acid and 4,4'-biphenol. Macromolecules, 1994, 27, 507-512.	2.2	78
5	Application of emulsion of dense carbon dioxide in electroplating solution with nonionic surfactants for nickel electroplating. Surface and Coatings Technology, 2003, 173, 285-292.	2.2	75
6	Fully Depleted Tiâ€“Nbâ€“Taâ€“Zrâ€“O Nanotubes: Interfacial Charge Dynamics and Solar Hydrogen Production. ACS Applied Materials & Interfaces, 2018, 10, 22997-23008.	4.0	70
7	Electroplating of Nanostructured Nickel in Emulsion of Supercritical Carbon Dioxide in Electrolyte Solution. Chemistry Letters, 2002, 31, 1086-1087.	0.7	67
8	Bright nickel film deposited by supercritical carbon dioxide emulsion using additive-free Watts bath. Electrochimica Acta, 2010, 55, 6469-6475.	2.6	67
9	New electroplating method of nickel in emulsion of supercritical carbon dioxide and electroplating solution to enhance uniformity and hardness of plated film. Thin Solid Films, 2004, 446, 194-199.	0.8	66
10	Solid-State 13C NMR Study of Chiral Twisted Conformation Attributable to Chirality in Smectic Phases of Achiral Banana-Shaped Molecules. Journal of Physical Chemistry A, 2004, 108, 4674-4678.	1.1	64
11	Rigid-Rod Polyesters with Flexible Side Chains. 6. Appearance of Hexagonal Columnar Phase as a Consequence of Microsegregation of Aromatic Main Chains and Aliphatic Side Chains. Macromolecules, 1996, 29, 4816-4818.	2.2	57
12	Near infrared-driven photoelectrochemical water splitting: Review and future prospects. Arabian Journal of Chemistry, 2020, 13, 8372-8387.	2.3	51
13	Nematic Liquid Crystals with Polar Ordering Formed from Simple Aromatic Polyester. Japanese Journal of Applied Physics, 1996, 35, L505-L507.	0.8	48
14	Incorporating graphene quantum dots to enhance the photoactivity of CdSe-sensitized TiO₂nanorods for solar hydrogen production. Journal of Materials Chemistry A, 2020, 8, 13971-13979.	5.2	47
15	Function and mechanism of supercritical carbon dioxide emulsified electrolyte in nickel electroplating reaction. Surface and Coatings Technology, 2011, 205, 3890-3899.	2.2	40
16	Red-Light-Emitting Organic Electroluminescent Devices with Bisanil Dye as Emitter. Japanese Journal of Applied Physics, 2001, 40, 3201-3205.	0.8	39
17	Cycloaddition of Oxirane Group with Carbon Dioxide in the Supercritical Homogeneous State. Industrial & Engineering Chemistry Research, 2002, 41, 5353-5358.	1.8	39
18	The effects of dense carbon dioxide on nickel plating using emulsion of carbon dioxide in electroplating solution. Surface and Coatings Technology, 2004, 182, 329-334.	2.2	39

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19	Supercritical CO₂-Assisted Electrochemical Deposition of ZnO Mesocrystals for Practical Photoelectrochemical Applications. Journal of Physical Chemistry C, 2013, 117, 25596-25603.	1.5	38
20	Rigid-Rod Polyesters with Flexible Side Chains Based on 1,4-Dialkyl Esters of Pyromellitic Acid and 4,4'-Biphenol. 5. High-Resolution 13C NMR Studies for Crystalline and Liquid Crystalline Layered Phases. Macromolecules, 1994, 27, 2769-2777.	2.2	36
21	Mechanical properties of nickel fabricated by electroplating with supercritical CO2 emulsion evaluated by micro-compression test using non-tapered micro-sized pillar. Microelectronic Engineering, 2013, 110, 270-273.	1.1	34
22	Effects of pressure on electroplating of copper using supercritical carbon dioxide emulsified electrolyte. Thin Solid Films, 2013, 529, 25-28.	0.8	34
23	Pulse electroplating of ultra-fine grained Au films with high compressive strength. Electrochemistry Communications, 2016, 67, 51-54.	2.3	33
24	Fluorescence Study on Intermolecular Interactions between Mesogenic Biphenyl Moieties of a Thermotropic Liquid-Crystalline Polyester (PB-10). Macromolecules, 1996, 29, 3485-3490.	2.2	32
25	Roles of TiO2 in the highly robust Au nanoparticles-TiO2 modified polyaniline electrode towards non-enzymatic sensing of glucose. Talanta, 2020, 212, 120780.	2.9	32
26	Rigid-Rod Polyesters with Flexible Side Chains Based on 1,4-Dialkylesters of Pyromellitic Acid III. Charge Transfer Complex Formation in Layered Mesophase of B-C16 Analyzed with Fluorescence Spectroscopy. Polymer Journal, 1993, 25, 997-1001.	1.3	31
27	Electroplating in CO2-in-water and water-in-CO2 emulsions using a nickel electroplating solution with anionic fluorinated surfactant. Surface and Coatings Technology, 2004, 187, 86-92.	2.2	30
28	Liquid Crystalline Features in a Polyolefin of Poly(methylene-1,3-cyclopentane). Macromolecules, 2008, 41, 7448-7452.	2.2	29
29	Electrocatalytic activity enhancement of Au NPs-TiO2 electrode via a facile redistribution process towards the non-enzymatic glucose sensors. Sensors and Actuators B: Chemical, 2020, 319, 128279.	4.0	29
30	Nano-grain structure of nickel films prepared by emulsion plating using dense carbon dioxide. Surface and Coatings Technology, 2005, 190, 200-205.	2.2	28
31	Study on liquid crystallinity in 2,9â€dialkylpentacenes. Liquid Crystals, 2007, 34, 1001-1007.	0.9	28
32	Sample size effect of electrodeposited nickel with sub-10nm grain size. Materials Letters, 2014, 117, 256-259.	1.3	28
33	Niâ€“P and TiO2 codeposition on silk textile via supercritical CO2 promoted electroless plating for flexible and wearable photocatalytic devices. Electrochimica Acta, 2019, 294, 68-75.	2.6	28
34	Application of supercritical carbon dioxide in catalyzation and Ni-P electroless plating of nylon 6,6 textile. Surface and Coatings Technology, 2016, 302, 336-343.	2.2	25
35	Microstructural development of an electrodeposited Ni layer. Thin Solid Films, 2010, 518, 5153-5158.	0.8	24
36	Micro-compression test using non-tapered micro-pillar of electrodeposited Cu. Microelectronic Engineering, 2013, 111, 118-121.	1.1	24

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37	Rigid-Rod Polyesters with Flexible Side Chains Based on 1,4-Dialkylesters of Pyromellitic Acid II. Mesogenic Properties of H-Cn Polyesters Prepared from 1,4-Dialkylesters of Pyromellitic Acid and Hydroquinone. Polymer Journal, 1992, 24, 1119-1127.	1.3	23
38	Crystalline Structure of Polyethylene Containing 1,2- or 1,3-Disubstituted Cyclopentane Units in the Main Chain. Macromolecules, 2002, 35, 9999-10003.	2.2	23
39	Electrochemical polymerization of pyrrole in supercritical carbon dioxide-in-water emulsion. Polymer, 2006, 47, 1547-1554.	1.8	23
40	Large increase in fracture resistance of stishovite with crack extension less than one micrometer. Scientific Reports, 2015, 5, 10993.	1.6	23
41	Tensile behavior of micro-sized specimen made of single crystalline nickel. Materials Letters, 2015, 153, 36-39.	1.3	23
42	Influence of sensitizer on organic electroluminescence. Journal of Applied Physics, 2001, 89, 7895-7898.	1.1	22
43	Rigid-Rod Polyesters with Flexible Side Chains IX. Phase Behavior Including Nematic, Layered, and Hexagonal Columnar Phases in Poly(p-biphenylene terephthalate) with Alkoxy Side Chains. Polymer Journal, 2002, 34, 291-297.	1.3	22
44	Uniform Niâ€“P Film Using an Electroless Plating Method with an Emulsion of Supercritical Carbon Dioxide. Journal of the Electrochemical Society, 2007, 154, E91.	1.3	20
45	Metallization on polymer by catalyzation in supercritical CO2 and electroless plating in dense CO2 emulsion. Surface and Coatings Technology, 2008, 202, 3921-3926.	2.2	20
46	Pdâ€“Niâ€“P metallic glass film fabricated by electroless alloy plating. Thin Solid Films, 2009, 517, 1935-1938.	0.8	20
47	Filling of nanoscale holes with high aspect ratio by Cu electroplating using suspension of supercritical carbon dioxide in electrolyte with Cu particles. Microelectronic Engineering, 2012, 97, 126-129.	1.1	20
48	Reduced graphene oxides-wrapped ZnO with notable photocatalytic property. Journal of the Taiwan Institute of Chemical Engineers, 2020, 112, 337-344.	2.7	19
49	Crystal growth on novel Cu electroplating using suspension of supercritical CO 2 in electrolyte with Cu particles. Surface and Coatings Technology, 2013, 231, 77-80.	2.2	18
50	Effects of current density on mechanical properties of electroplated nickel with high speed sulfamate bath. Microelectronic Engineering, 2019, 213, 18-23.	1.1	18
51	Aromatic Polyesters with Flexible Side Chains. 8. Studies on Long Periodical Structure Observed in Layered Crystalline Phase. Macromolecules, 2000, 33, 8367-8370.	2.2	17
52	Liquid Crystalline Features of Optically Active Poly(methylene-1,3-cyclopentane). Macromolecules, 2009, 42, 7631-7633.	2.2	17
53	Crystallographic study on self-annealing of electroplated copper at room temperature. Materials Science in Semiconductor Processing, 2013, 16, 633-639.	1.9	17
54	Micro-bending testing of electrodeposited gold for applications as movable components in MEMS devices. Microelectronic Engineering, 2017, 180, 15-19.	1.1	17

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55	Design and Development of Amperometric Gas Sensor With Atomic Auâ€“Polyaniline/Pt Composite. IEEE Sensors Journal, 2020, 20, 12479-12487.	2.4	17
56	Fabrication of a novel Pd/Î³-alumina graded membrane by electroless plating on nanoporous Î³-alumina. Journal of Membrane Science, 2008, 324, 181-187.	4.1	16
57	Functionally graded Pd/Î³-alumina composite membrane fabricated by electroless plating with emulsion of supercritical CO2. Journal of Membrane Science, 2009, 342, 321-326.	4.1	16
58	Effects of Sc-CO2 catalyzation in metallization on polymer by electroless plating. Surface and Coatings Technology, 2009, 203, 1971-1978.	2.2	16
59	Cu electroplating using suspension of supercritical carbon dioxide in copper-sulfate-based electrolyte with Cu particles. Thin Solid Films, 2013, 529, 29-33.	0.8	16
60	Rigid-Rod Polyesters with Flexible Side Chains Based on 1,4-Dialkyl Esters of Pyromellitic Acid and 4,4â€˜-Biphenol. 7. Fluorescence Studies on Crystalline and Liquid Crystalline Layered Phases over a Wide Range of Temperatures. Macromolecules, 1998, 31, 8865-8870.	2.2	15
61	Void-free micro-pattern of nickel fabricated by electroplating with supercritical carbon dioxide emulsion. Microelectronic Engineering, 2011, 88, 2225-2228.	1.1	14
62	Tensile behavior of micro-sized specimen fabricated from nanocrystalline nickel film. Microelectronic Engineering, 2015, 141, 17-20.	1.1	14
63	Auâ€“Cu Alloys Prepared by Pulse Electrodeposition toward Applications as Movable Micro-Components in Electronic Devices. Journal of the Electrochemical Society, 2018, 165, D58-D63.	1.3	14
64	Micromechanical characterization of deformation behavior in ferrous lath martensite. Journal of Alloys and Compounds, 2013, 577, S555-S558.	2.8	13
65	Cu wiring into nano-scale holes by electrodeposition in supercritical carbon dioxide emulsified electrolyte with a continuous-flow reaction system. Journal of Supercritical Fluids, 2014, 90, 60-64.	1.6	13
66	Mechanical behavior of a microsized pillar fabricated from ultrafine-grained ferrite evaluated by a microcompression test. Acta Materialia, 2014, 73, 12-18.	3.8	13
67	Platinum coating on silk by a supercritical CO2 promoted metallization technique for applications of wearable devices. Surface and Coatings Technology, 2018, 350, 1028-1035.	2.2	13
68	Characterization of deformation-induced structural change of Pd78Cu6Si16 metallic glass using a micro-sized cantilever-beam specimen. Scripta Materialia, 2010, 62, 309-312.	2.6	12
69	Direct observation of sintering mechanics of a single grain boundary. Acta Materialia, 2012, 60, 507-516.	3.8	12
70	Structure stability of high aspect ratio Ti/Au two-layer cantilevers for applications in MEMS accelerometers. Microelectronic Engineering, 2016, 159, 90-93.	1.1	12
71	Side-chain conformation of poly(l-proline) form II in the crystalline state as studied by high-resolution solid-state 13C NMR spectroscopy. Journal of Molecular Structure, 1994, 317, 111-118.	1.8	11
72	Evaluation of anisotropic structure in electrodeposited Ni film using micro-sized cantilever. Microelectronic Engineering, 2012, 100, 25-27.	1.1	11

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73	Crystal Growth of Cobalt Film Fabricated by Electrodeposition with Dense Carbon Dioxide. Journal of the Electrochemical Society, 2015, 162, D423-D426.	1.3	11
74	Enhancement of mechanical strength in Au films electroplated with supercritical carbon dioxide. Electrochemistry Communications, 2016, 72, 126-130.	2.3	11
75	Tensile tests of micro-specimens composed of electroplated gold. Microelectronic Engineering, 2017, 174, 6-10.	1.1	11
76	Fabrication and Photocatalytic Performance of Au/ZnO Layered Structure on Silk Textile for Flexible Device Applications. Electrochimica Acta, 2017, 253, 39-46.	2.6	11
77	(Invited) CMOS-MEMS Based Microgravity Sensor and Its Application. ECS Transactions, 2020, 97, 91-108.	0.3	11
78	Blue and yellow emission from derivates of tris(8-hydroxyquinoline)aluminium light-emitting diodes. Journal Physics D: Applied Physics, 2001, 34, 2679-2682.	1.3	10
79	Effects of ammonium salt doping on electroluminescence properties of 4,4-bis(9-dicarbazolyl)-biphenyl. Journal Physics D: Applied Physics, 2001, 34, 3492-3495.	1.3	10
80	Wear properties of nickel coating film plated from emulsion with dense carbon dioxide. Surface and Coatings Technology, 2006, 201, 606-611.	2.2	10
81	Effects of CO[sub 2] on Niâ€“P Electroless Plating in an Emulsion of Supercritical CO[sub 2]. Journal of the Electrochemical Society, 2010, 157, D550.	1.3	10
82	Fundamental Property Assessments of Biocompatible Silkâ€“Pt Composite Prepared by Supercritical Carbon Dioxide Promoted Electroless Plating. Industrial & Engineering Chemistry Research, 2017, 56, 8864-8871.	1.8	10
83	Promoted bending strength in micro-cantilevers composed of nanograined gold toward MEMS applications. Microelectronic Engineering, 2018, 196, 20-24.	1.1	10
84	Metallization of PET textile utilizing supercritical CO2 catalyzation. Microelectronic Engineering, 2020, 223, 111233.	1.1	10
85	Development and Characterization of Vertically Stacked Tactile Sensor With Hollow Structure. IEEE Sensors Journal, 2021, 21, 5809-5818.	2.4	10
86	High resolution 13C NMR studies for crystalline and liquid crystalline phases of PB-18 polyester composed of 4,4'-dihydroxybiphenyl and octadecanedioic acid. Journal of Molecular Structure, 1998, 446, 215-221.	1.8	9
87	Lightâ€induced formation of curved needle texture by circularly polarized light irradiation on a discotic liquid crystal containing a racemic chromium complex. Liquid Crystals, 2006, 33, 671-679.	0.9	9
88	Impregnation of Niâ€“P metal into polymer substrate via catalyzation in Sc-CO2 and electroless plating in Sc-CO2 emulsion. Surface and Coatings Technology, 2010, 204, 1785-1792.	2.2	9
89	High aspect ratio micro-hole filling employing emulsified supercritical CO2 electrolytes. Journal of Supercritical Fluids, 2016, 109, 61-66.	1.6	9
90	Metallization of polyimide films with enlarged area by conducting the catalyzation in supercritical carbon dioxide. Microelectronic Engineering, 2016, 153, 1-4.	1.1	9

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91	High-Strength Electroplated Auâ€“Cu Alloys as Micro-Components in MEMS Devices. Journal of the Electrochemical Society, 2017, 164, D244-D247.	1.3	9
92	A Supercritical CO₂Promoted Electroless Ni-P Plating on Silk and Their Fundamental Characteristics Investigations. Journal of the Electrochemical Society, 2017, 164, D406-D411.	1.3	9
93	Novel porous film by electroplating with an emulsion of supercritical CO2. Surface and Coatings Technology, 2007, 201, 7513-7518.	2.2	8
94	Structure and dynamics of poly(ethylene-co-1,5-hexadiene) as studied by solid state 13C NMR and quantum chemical calculations. Journal of Molecular Structure, 2009, 921, 208-214.	1.8	8
95	Metallization on polymer via quantitatively controlled catalyzation in Scâ€“CO2 and electroless plating with Scâ€“CO2 emulsion for micro and nano-device. Microelectronic Engineering, 2009, 86, 1179-1182.	1.1	8
96	Effects of supercritical carbon dioxide treatment on bending properties of micro-sized SU-8 Specimens. Microelectronic Engineering, 2011, 88, 2272-2274.	1.1	8
97	Metallization of textile by Pt catalyzation in supercritical carbon dioxide and Pt electroless plating for applications in wearable devise. Microelectronic Engineering, 2016, 153, 92-95.	1.1	8
98	Sample size effect on micro-mechanical properties of gold electroplated with dense carbon dioxide. Surface and Coatings Technology, 2018, 350, 1065-1070.	2.2	8
99	Nano-Au Catalysts Modified with TiO₂: Enhancement of Electrocatalytic Activity for 1-Propanol Oxidation in Alkaline Media. Journal of the Electrochemical Society, 2019, 166, F760-F767.	1.3	8
100	Electrodeposition of Ni-Co Alloys and Their Mechanical Properties by Micro-Vickers Hardness Test. Electrochem, 2021, 2, 1-9.	1.7	8
101	Ring puckering of the pyrrolidine ring of poly (l-proline) form I as studied by variable-temperature high-resolution 13C NMR spectroscopy. Journal of Molecular Structure, 1993, 301, 227-230.	1.8	7
102	Development of New Evaluation Method for Adhesive Strength between Microsized Photoresist and Si Substrate of MEMS Devices. Key Engineering Materials, 2007, 345-346, 1185-1188.	0.4	7
103	Defect-Free Nickel Micropillars Fabricated at a High Current Density by Application of a Supercritical Carbon Dioxide Emulsion. Industrial & Engineering Chemistry Research, 2011, 50, 8080-8085.	1.8	7
104	Evaluations of Mechanical Properties of Electrodeposited Nickel Film by Using Micro-Testing Method. Materials Transactions, 2016, 57, 1979-1984.	0.4	7
105	Silkâ€“Pt composite integration by supercritical carbon dioxide assisted electroless plating for medical devices application. Microelectronic Engineering, 2017, 175, 34-37.	1.1	7
106	Strength and toughness of nanocrystalline SiO2 stishovite toughened by fracture-induced amorphization. Acta Materialia, 2017, 124, 316-324.	3.8	7
107	A MEMS Accelerometer for Sub-mG Sensing. Sensors and Materials, 2019, 31, 2883.	0.3	7
108	Fluorescence study of a thermotropic liquid crystal: Bis (p-hexyloxyphenyl) terephthalate. Liquid Crystals, 1996, 21, 505-510.	0.9	6

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109	Nanograin deposition via an electroplating reaction in an emulsion of dense carbon dioxide in a nickel electroplating solution using nonionic fluorinated surfactant. Surface and Coatings Technology, 2005, 194, 149-156.	2.2	6
110	Aromatic Polyesters with Flexible Side Chains. 10. Studies on Biaxiality in Nematic Liquid Crystal of BC-n Polyester. Polymer Journal, 2006, 38, 442-446.	1.3	6
111	Effects of heat curing on adhesive strength between microsized SU-8 and Si substrate. , 2007, , .		6
112	Crystalline structure of polyethylene containing vinylene units in the main chain. Polymer, 2011, 52, 4857-4866.	1.8	6
113	Pdâ€“Niâ€“P metallic glass pattern with controllable microstructure fabricated by electroless alloy plating. Microelectronic Engineering, 2011, 88, 2401-2404.	1.1	6
114	Solid-state 13C NMR study of banana liquid crystals â€“ 1: Two different alkyl tail-group packing environments in the B7 phase. Journal of Molecular Structure, 2012, 1008, 49-53.	1.8	6
115	Abnormally large Ni grains epitaxially grown by electrodeposition on Cu substrate. Thin Solid Films, 2013, 529, 385-388.	0.8	6
116	Fabrication of TiO2 micro-structures by cathodic deposition. Microelectronic Engineering, 2014, 121, 80-82.	1.1	6
117	Brittle Fracture of Electrodeposited Gold Observed by Micro-Compression. Materials Transactions, 2016, 57, 1257-1260.	0.4	6
118	Nanoscale Hierarchical Structure of Twins in Nanograins Embedded with Twins and the Strengthening Effect. Metals, 2019, 9, 987.	1.0	6
119	Indirect Sensing of Lower Aliphatic Ester Using Atomic Gold Decorated Polyaniline Electrode. Sensors, 2020, 20, 3640.	2.1	6
120	Morphology Control and Metallization of Porous Polymers Synthesized by Michael Addition Reactions of a Multi-Functional Acrylamide with a Diamine. Materials, 2021, 14, 800.	1.3	6
121	Supercritical carbon dioxide-assisted functionalization of polyethylene terephthalate (PET) toward flexible catalytic electrodes. Journal of Supercritical Fluids, 2022, 180, 105455.	1.6	6
122	Supercritical carbon dioxide-assisted platinum metallization of polyethylene terephthalate textile toward wearable device. Micro and Nano Engineering, 2022, 15, 100132.	1.4	6
123	Effects of Aspect Ratio of Photoresist Patterns on Adhesive Strength between Microsized SU-8 Columns and Silicon Substrate under Bend Loading Condition. Japanese Journal of Applied Physics, 2010, 49, 06GN14.	0.8	5
124	Cathodic deposition of TiO2 thin films with supercritical CO2 emulsified electrolyte. Electrochemistry Communications, 2013, 33, 68-71.	2.3	5
125	Quantitative study on removal of SU-8 photoresist patterns by supercritical CO2 emulsion. Microelectronic Engineering, 2013, 110, 204-206.	1.1	5
126	Mechanical properties of Cu electroplated in supercritical CO2 emulsion evaluated by micro-compression test. Microelectronic Engineering, 2014, 121, 83-86.	1.1	5

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127	Mechanical properties of Sn electrodeposited in supercritical CO2 emulsions using micro-compression test. Microelectronic Engineering, 2015, 141, 219-222.	1.1	5
128	Deformation Behavior of Pure Cu and Cu-Ni-Si Alloy Evaluated by Micro-Tensile Testing. Materials Transactions, 2016, 57, 1897-1901.	0.4	5
129	Effects of Pressure in Cathodic Deposition of TiO2 and SnO2 with Supercritical CO2 Emulsified Electrolyte. Electrochimica Acta, 2016, 208, 244-250.	2.6	5
130	A study on young's modulus of electroplated gold cantilevers for MEMS devices. , 2017, , .		5
131	Enhancement in structure stability of gold micro-cantilever by constrained fixed-end in MEMS devices. Microelectronic Engineering, 2018, 187-188, 105-109.	1.1	5
132	(Invited) MEMS Accelerometer Fabricated by Gold Multi-Layer Metal Technology. ECS Transactions, 2019, 92, 169-184.	0.3	5
133	Catalytic Activity of Atomic Gold-Decorated Polyaniline Support in Glucose Oxidation. Electrochem, 2020, 1, 394-399.	1.7	5
134	Sample geometry effect on mechanical property of gold micro-cantilevers by micro-bending test. MRS Communications, 2020, 10, 434-438.	0.8	5
135	Metallization of 3D-printed polymer structures via supercritical carbon dioxide-assisted electroless plating. MRS Communications, 2021, 11, 278-282.	0.8	5
136	Suppressed drift and low-noise sensor module with a single-axis gold proof-mass MEMS accelerometer for micro muscle sound measurement. Japanese Journal of Applied Physics, 2022, 61, SD1028.	0.8	5
137	Study on delamination mechanism of SU-8 micropillars on a Si-substrate under bend loading by Weibull analysis. Microelectronic Engineering, 2011, 88, 2132-2134.	1.1	4
138	Direct Observation of Nodule Growth on Electroless Ni-P Deposition in Supercritical CO₂Emulsion. Journal of the Electrochemical Society, 2011, 159, D114-D118.	1.3	4
139	Electrodeposition of Tin Using Supercritical Carbon Dioxide Emulsions. ECS Electrochemistry Letters, 2014, 3, D44-D45.	1.9	4
140	Solid-state 13C NMR study of banana liquid crystals â€“ 3: Alkyl-tail-group packing environments of an acute-angle bent-core molecule in the hexagonal columnar and cubic phases. Journal of Molecular Structure, 2016, 1105, 34-40.	1.8	4
141	The hydrobaric effect on cathodically deposited titanium dioxide photocatalyst. MRS Communications, 2017, 7, 189-192.	0.8	4
142	Deformation behavior of electroplated gold composed of nano-columnar grains embedded in micro-columnar textures. Materials Letters, 2017, 202, 82-85.	1.3	4
143	Evaluation of the Shape Memory Effect by Micro-Compression Testing of Single Crystalline Ti-27Nb Ni-Free Alloy. Materials, 2020, 13, 110.	1.3	4
144	Developments of the Electroactive Materials for Non-Enzymatic Glucose Sensing and Their Mechanisms. Electrochem, 2021, 2, 347-389.	1.7	4

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145	Supercritical carbon dioxide assisted co-electrodeposition of nickel-titanium dioxide composite film and the dispersity. Journal of Supercritical Fluids, 2022, 181, 105495.	1.6	4
146	Development of polypyrrole/nano-gold composite for non-enzymatic glucose sensors. Micro and Nano Engineering, 2022, 14, 100109.	1.4	4
147	Effects of Fluorinated Surfactant in Cathodic Deposition of TiO2 Films with Supercritical CO2 Emulsified Electrolyte. ECS Electrochemistry Letters, 2014, 3, D1-D2.	1.9	3
148	A design of spring constant arranged for MEMS accelerometer by multi-layer metal technology. , 2016, , .		3
149	A damping constant model for proof-mass structure design of MEMS inertial sensor by multi-layer metal technology. , 2016, , .		3
150	Evaluation and modeling of adhesion layer in shock-protection structure for MEMS accelerometer. Microelectronics Reliability, 2016, 66, 78-84.	0.9	3
151	Pillar-Shaped Electrodes for 3-axis Gold-Proof-Mass MEMS Capacitive Accelerometers. , 2019, , .		3
152	Atomic gold decorated polyaniline sensor for gaseous detection. , 2019, , .		3
153	Long-term structure stability of Ti/Au layered micro-cantilever evaluated by vibration test. Microelectronic Engineering, 2019, 207, 33-36.	1.1	3
154	Cu-alloying effect on structure stability of electrodeposited gold-based micro-cantilever evaluated by long-term vibration test. Microelectronic Engineering, 2019, 215, 111001.	1.1	3
155	Strengthening of micro-cantilever by Au/Ti bi-layered structure evaluated by micro-bending test toward MEMS devices. Microelectronic Engineering, 2019, 213, 13-17.	1.1	3
156	High-Sensitivity Inertial Sensor Module to Measure Hidden Micro Muscular Sounds. , 2019, , .		3
157	The Structure and Micro-Mechanical Properties of Electrodeposited Cobalt Films by Micro-Compression Test. Journal of the Electrochemical Society, 0, , .	1.3	3
158	Electrochemical Investigation of Cu Electroplating with Supercritical CO2 Emulsion Using a Rotating Disk Electrode under High Pressure. Journal of the Electrochemical Society, 2020, 167, 162506.	1.3	3
159	Sample size effect in Ni-TiO2 composites fabricated by supercritical CO2 emulsified CO-electroplating for miniaturized device. Micro and Nano Engineering, 2022, 15, 100135.	1.4	3
160	Electrodeposition and Micro-Mechanical Property Characterization of Nickelâ€“Cobalt Alloys toward Design of MEMS Components. Electrochem, 2022, 3, 198-210.	1.7	3
161	Effects of Supercritical Carbon Dioxide on Adhesive Strength between Micro-sized Photoresist Patterns and Silicon Substrates. Materials Research Society Symposia Proceedings, 2007, 1052, 1.	0.1	2
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