

Masato Sone

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/5905429/masato-sone-publications-by-year.pdf>

Version: 2024-04-24

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

208
papers

2,759
citations

26
h-index

44
g-index

222
ext. papers

3,122
ext. citations

3.2
avg, IF

5.17
L-index

| # | Paper | IF | Citations |
|-----|---|-----|-----------|
| 208 | Development of polypyrrole/nano-gold composite for non-enzymatic glucose sensors. <i>Micro and Nano Engineering</i> , 2022 , 14, 100109 | 3.4 | 1 |
| 207 | Supercritical carbon dioxide assisted co-electrodeposition of nickel-titanium dioxide composite film and the dispersity. <i>Journal of Supercritical Fluids</i> , 2022 , 181, 105495 | 4.2 | 1 |
| 206 | Supercritical carbon dioxide-assisted functionalization of polyethylene terephthalate (PET) toward flexible catalytic electrodes. <i>Journal of Supercritical Fluids</i> , 2022 , 180, 105455 | 4.2 | 4 |
| 205 | Effect of current density on micro-mechanical property of electrodeposited gold film evaluated by micro-compression. <i>Surface and Coatings Technology</i> , 2022 , 436, 128315 | 4.4 | |
| 204 | Dielectric Relaxation Behavior of Ferroelectric Smectic-A Phase in Dimeric Molecules. <i>IEEJ Transactions on Fundamentals and Materials</i> , 2022 , 142, 152-158 | 0.2 | |
| 203 | Sample size effect in Ni-TiO ₂ composites fabricated by supercritical CO ₂ emulsified CO-electroplating for miniaturized device. <i>Micro and Nano Engineering</i> , 2022 , 15, 100135 | 3.4 | 0 |
| 202 | Supercritical carbon dioxide-assisted platinum metallization of polyethylene terephthalate textile toward wearable device. <i>Micro and Nano Engineering</i> , 2022 , 15, 100132 | 3.4 | 1 |
| 201 | Electrodeposition and Micro-Mechanical Property Characterization of Nickel-Cobalt Alloys toward Design of MEMS Components. <i>Electrochem</i> , 2022 , 3, 198-210 | 2.9 | 0 |
| 200 | Electrodeposition of Ni-Co Alloys and Their Mechanical Properties by Micro-Vickers Hardness Test. <i>Electrochem</i> , 2021 , 2, 1-9 | 2.9 | 3 |
| 199 | Micro-Compression Characterization and Thermal Stability of Electrolessly Plated Nickel Phosphorus Alloy. <i>ECS Journal of Solid State Science and Technology</i> , 2021 , 10, 035007 | 2 | 1 |
| 198 | Development and Characterization of Vertically Stacked Tactile Sensor With Hollow Structure. <i>IEEE Sensors Journal</i> , 2021 , 21, 5809-5818 | 4 | 4 |
| 197 | Metallization of 3D-printed polymer structures via supercritical carbon dioxide-assisted electroless plating. <i>MRS Communications</i> , 2021 , 11, 278-282 | 2.7 | 2 |
| 196 | Effective Young's Modulus of Complex Three Dimensional Multilayered Ti/Au Micro-Cantilevers Fabricated by Electrodeposition and the Temperature Dependency. <i>Electrochem</i> , 2021 , 2, 216-223 | 2.9 | 1 |
| 195 | Developments of the Electroactive Materials for Non-Enzymatic Glucose Sensing and Their Mechanisms. <i>Electrochem</i> , 2021 , 2, 347-389 | 2.9 | 1 |
| 194 | Morphology Control and Metallization of Porous Polymers Synthesized by Michael Addition Reactions of a Multi-Functional Acrylamide with a Diamine. <i>Materials</i> , 2021 , 14, | 3.5 | 1 |
| 193 | (Invited) CMOS-MEMS Based Microgravity Sensor and Its Application. <i>ECS Transactions</i> , 2020 , 97, 91-108 | 1 | 4 |
| 192 | Near infrared-driven photoelectrochemical water splitting: Review and future prospects. <i>Arabian Journal of Chemistry</i> , 2020 , 13, 8372-8387 | 5.9 | 29 |

| | | | |
|-----|--|-----|----|
| 191 | Sample geometry effect on mechanical property of gold micro-cantilevers by micro-bending test. <i>MRS Communications</i> , 2020 , 10, 434-438 | 2.7 | 4 |
| 190 | Metallization of PET textile utilizing supercritical CO2 catalyzation. <i>Microelectronic Engineering</i> , 2020 , 223, 111233 | 2.5 | 5 |
| 189 | Design and Development of Amperometric Gas Sensor With Atomic Au Polyaniline/Pt Composite. <i>IEEE Sensors Journal</i> , 2020 , 20, 12479-12487 | 4 | 11 |
| 188 | Alloy Electroplating and Young's Modulus Characterization of AuCu Alloy Microcantilevers. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 082503 | 3.9 | 2 |
| 187 | Reduced graphene oxides-wrapped ZnO with notable photocatalytic property. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2020 , 112, 337-344 | 5.3 | 14 |
| 186 | Roles of TiO in the highly robust Au nanoparticles-TiO modified polyaniline electrode towards non-enzymatic sensing of glucose. <i>Talanta</i> , 2020 , 212, 120780 | 6.2 | 19 |
| 185 | Incorporating graphene quantum dots to enhance the photoactivity of CdSe-sensitized TiO ₂ nanorods for solar hydrogen production. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 13971-13979 | 13 | 35 |
| 184 | Mechanics of Metallic Materials in Micro-Scale I Metallographic Analysis of Metallic Materials of Electrodeposition <i>Materia Japan</i> , 2020 , 59, 490-494 | 0.1 | 1 |
| 183 | Mechanics of Metallic Materials in Micro-Scale II. Size Effects of Metallic Materials and the Mechanical Property Evaluation <i>Materia Japan</i> , 2020 , 59, 537-541 | 0.1 | |
| 182 | Mechanics of Metallic Materials in Micro-Scale III. Effects of Texture, Alloying, Twin and Impurity on Mechanical Property of Micro-size Metal. <i>Materia Japan</i> , 2020 , 59, 618-623 | 0.1 | |
| 181 | Heterogeneous Deformation Behavior of Cu-Ni-Si Alloy by Micro-Size Compression Testing. <i>Crystals</i> , 2020 , 10, 1162 | 2.3 | 1 |
| 180 | Electrochemical Investigation of Cu Electroplating with Supercritical CO ₂ Emulsion Using a Rotating Disk Electrode under High Pressure. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 162506 | 3.9 | 0 |
| 179 | Electrocatalytic activity enhancement of Au NPs-TiO ₂ electrode via a facile redistribution process towards the non-enzymatic glucose sensors. <i>Sensors and Actuators B: Chemical</i> , 2020 , 319, 128279 | 8.5 | 14 |
| 178 | Indirect Sensing of Lower Aliphatic Ester Using Atomic Gold Decorated Polyaniline Electrode. <i>Sensors</i> , 2020 , 20, | 3.8 | 2 |
| 177 | Co-Electrodeposition of Au-TiO ₂ Nanocomposite and the Micro-Mechanical Properties. <i>Electrochem</i> , 2020 , 1, 388-393 | 2.9 | 1 |
| 176 | Catalytic Activity of Atomic Gold-Decorated Polyaniline Support in Glucose Oxidation. <i>Electrochem</i> , 2020 , 1, 394-399 | 2.9 | 3 |
| 175 | Nanoscale Hierarchical Structure of Twins in Nanograins Embedded with Twins and the Strengthening Effect. <i>Metals</i> , 2019 , 9, 987 | 2.3 | 6 |
| 174 | Atomic gold decorated polyaniline sensor for gaseous detection 2019 , | | 2 |

| | | | |
|-----|---|-----|-----|
| 173 | Long-term structure stability of Ti/Au layered micro-cantilever evaluated by vibration test. <i>Microelectronic Engineering</i> , 2019 , 207, 33-36 | 2.5 | 1 |
| 172 | Cu-alloying effect on structure stability of electrodeposited gold-based micro-cantilever evaluated by long-term vibration test. <i>Microelectronic Engineering</i> , 2019 , 215, 111001 | 2.5 | 1 |
| 171 | Effects of current density on mechanical properties of electroplated nickel with high speed sulfamate bath. <i>Microelectronic Engineering</i> , 2019 , 213, 18-23 | 2.5 | 11 |
| 170 | Mechanistic Insights into Photodegradation of Organic Dyes Using Heterostructure Photocatalysts. <i>Catalysts</i> , 2019 , 9, 430 | 4 | 281 |
| 169 | Strengthening of micro-cantilever by Au/Ti bi-layered structure evaluated by micro-bending test toward MEMS devices. <i>Microelectronic Engineering</i> , 2019 , 213, 13-17 | 2.5 | 2 |
| 168 | Evaluation of the Shape Memory Effect by Micro-Compression Testing of Single Crystalline Ti-27Nb Ni-Free Alloy. <i>Materials</i> , 2019 , 13, | 3.5 | 2 |
| 167 | Nano-Au Catalysts Modified with TiO ₂ : Enhancement of Electrocatalytic Activity for 1-Propanol Oxidation in Alkaline Media. <i>Journal of the Electrochemical Society</i> , 2019 , 166, F760-F767 | 3.9 | 5 |
| 166 | High Strength Electrodeposited Au-Cu Alloys Evaluated by Bending Test toward Movable Micro-Components. <i>ECS Journal of Solid State Science and Technology</i> , 2019 , 8, P412-P415 | 2 | 2 |
| 165 | A MEMS Accelerometer for Sub-mG Sensing. <i>Sensors and Materials</i> , 2019 , 31, 2883 | 1.5 | 3 |
| 164 | Fabrication of Au-Cu Alloy/Ti Layered Micro-Cantilevers and the Long-Term Structure Stability 2019 , | | 1 |
| 163 | (Invited) MEMS Accelerometer Fabricated by Gold Multi-Layer Metal Technology. <i>ECS Transactions</i> , 2019 , 92, 169-184 | 1 | 2 |
| 162 | High-Sensitivity Inertial Sensor Module to Measure Hidden Micro Muscular Sounds 2019 , | | 1 |
| 161 | Ni ²⁺ and TiO ₂ codeposition on silk textile via supercritical CO ₂ promoted electroless plating for flexible and wearable photocatalytic devices. <i>Electrochimica Acta</i> , 2019 , 294, 68-75 | 6.7 | 16 |
| 160 | Platinum coating on silk by a supercritical CO ₂ promoted metallization technique for applications of wearable devices. <i>Surface and Coatings Technology</i> , 2018 , 350, 1028-1035 | 4.4 | 6 |
| 159 | Fully Depleted Ti-Nb-Ta-Zr-O Nanotubes: Interfacial Charge Dynamics and Solar Hydrogen Production. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 22997-23008 | 9.5 | 59 |
| 158 | Enhancement in structure stability of gold micro-cantilever by constrained fixed-end in MEMS devices. <i>Microelectronic Engineering</i> , 2018 , 187-188, 105-109 | 2.5 | 1 |
| 157 | AuCu Alloys Prepared by Pulse Electrodeposition toward Applications as Movable Micro-Components in Electronic Devices. <i>Journal of the Electrochemical Society</i> , 2018 , 165, D58-D63 | 3.9 | 7 |
| 156 | Promoted bending strength in micro-cantilevers composed of nanograined gold toward MEMS applications. <i>Microelectronic Engineering</i> , 2018 , 196, 20-24 | 2.5 | 9 |

| | | | |
|-----|--|-----|----|
| 155 | Sample size effect on micro-mechanical properties of gold electroplated with dense carbon dioxide. <i>Surface and Coatings Technology</i> , 2018 , 350, 1065-1070 | 4.4 | 8 |
| 154 | High-Strength Electroplated AuCu Alloys as Micro-Components in MEMS Devices. <i>Journal of the Electrochemical Society</i> , 2017 , 164, D244-D247 | 3.9 | 8 |
| 153 | The hydrobaric effect on cathodically deposited titanium dioxide photocatalyst. <i>MRS Communications</i> , 2017 , 7, 189-192 | 2.7 | 4 |
| 152 | Deformation behavior of electroplated gold composed of nano-columnar grains embedded in micro-columnar textures. <i>Materials Letters</i> , 2017 , 202, 82-85 | 3.3 | 4 |
| 151 | Micro-bending testing of electrodeposited gold for applications as movable components in MEMS devices. <i>Microelectronic Engineering</i> , 2017 , 180, 15-19 | 2.5 | 11 |
| 150 | SilkBt composite integration by supercritical carbon dioxide assisted electroless plating for medical devices application. <i>Microelectronic Engineering</i> , 2017 , 175, 34-37 | 2.5 | 4 |
| 149 | Tensile tests of micro-specimens composed of electroplated gold. <i>Microelectronic Engineering</i> , 2017 , 174, 6-10 | 2.5 | 9 |
| 148 | Deformation of Biomedical AuCuAl-Based Shape Memory Alloy Micropillars. <i>MRS Advances</i> , 2017 , 2, 1411-1415 | 2.5 | 2 |
| 147 | Fundamental Property Assessments of Biocompatible SilkBt Composite Prepared by Supercritical Carbon Dioxide Promoted Electroless Plating. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 8864-8871 | 3.9 | 9 |
| 146 | Fabrication and Photocatalytic Performance of Au/ZnO Layered Structure on Silk Textile for Flexible Device Applications. <i>Electrochimica Acta</i> , 2017 , 253, 39-46 | 6.7 | 6 |
| 145 | A Supercritical CO ₂ Promoted Electroless Ni-P Plating on Silk and Their Fundamental Characteristics Investigations. <i>Journal of the Electrochemical Society</i> , 2017 , 164, D406-D411 | 3.9 | 6 |
| 144 | Long-term vibration characteristics of MEMS inertial sensors by multi-layer metal technology 2017 , | | 2 |
| 143 | Strength and toughness of nanocrystalline SiO ₂ stishovite toughened by fracture-induced amorphization. <i>Acta Materialia</i> , 2017 , 124, 316-324 | 8.4 | 6 |
| 142 | A study on young's modulus of electroplated gold cantilevers for MEMS devices 2017 , | | 3 |
| 141 | Micro-compression study of Ni-Fe(Co)-Ga magnetic shape memory alloy for MEMS sensors 2017 , | | 1 |
| 140 | Evaluations of Mechanical Properties of Electrodeposited Nickel Film by Using Micro-Testing Method. <i>Materials Transactions</i> , 2016 , 57, 1979-1984 | 1.3 | 7 |
| 139 | Evaluation and modeling of adhesion layer in shock-protection structure for MEMS accelerometer. <i>Microelectronics Reliability</i> , 2016 , 66, 78-84 | 1.2 | 2 |
| 138 | Development of high sensitivity CMOS-MEMS inertia sensor and its application to early-stage diagnosis of Parkinson's disease 2016 , | | 1 |

| | | | |
|-----|---|-----|----|
| 137 | Deformation Behavior of Pure Cu and Cu-Ni-Si Alloy Evaluated by Micro-Tensile Testing. <i>Materials Transactions</i> , 2016 , 57, 1897-1901 | 1.3 | 3 |
| 136 | Electroless Plating Method Using Supercritical Carbon Dioxide Emulsion. <i>Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan</i> , 2016 , 67, 192-196 | 0.1 | |
| 135 | Application of supercritical carbon dioxide in catalyzation and Ni-P electroless plating of nylon 6,6 textile. <i>Surface and Coatings Technology</i> , 2016 , 302, 336-343 | 4.4 | 17 |
| 134 | Structure stability of high aspect ratio Ti/Au two-layer cantilevers for applications in MEMS accelerometers. <i>Microelectronic Engineering</i> , 2016 , 159, 90-93 | 2.5 | 10 |
| 133 | Effects of Pressure in Cathodic Deposition of TiO ₂ and SnO ₂ with Supercritical CO ₂ Emulsified Electrolyte. <i>Electrochimica Acta</i> , 2016 , 208, 244-250 | 6.7 | 5 |
| 132 | High aspect ratio micro-hole filling employing emulsified supercritical CO ₂ electrolytes. <i>Journal of Supercritical Fluids</i> , 2016 , 109, 61-66 | 4.2 | 7 |
| 131 | Metallization of polyimide films with enlarged area by conducting the catalyzation in supercritical carbon dioxide. <i>Microelectronic Engineering</i> , 2016 , 153, 1-4 | 2.5 | 6 |
| 130 | Metallization of textile by Pt catalyzation in supercritical carbon dioxide and Pt electroless plating for applications in wearable devise. <i>Microelectronic Engineering</i> , 2016 , 153, 92-95 | 2.5 | 6 |
| 129 | Solid-state ¹³ C NMR study of banana liquid crystals B: Alkyl-tail-group packing environments of an acute-angle bent-core molecule in the hexagonal columnar and cubic phases. <i>Journal of Molecular Structure</i> , 2016 , 1105, 34-40 | 3.4 | 3 |
| 128 | Size Effect on the Electrodeposited Nickel Investigated by Micro-compression Test 2016 , 33-41 | | 1 |
| 127 | A design of spring constant arranged for MEMS accelerometer by multi-layer metal technology 2016 , | | 1 |
| 126 | Brittle Fracture of Electrodeposited Gold Observed by Micro-Compression. <i>Materials Transactions</i> , 2016 , 57, 1257-1260 | 1.3 | 5 |
| 125 | Effect of annealing on mechanical properties of nickel electrodeposited using supercritical CO ₂ emulsion evaluated by micro-compression test. <i>Microelectronic Engineering</i> , 2016 , 153, 101-104 | 2.5 | 2 |
| 124 | Pulse electroplating of ultra-fine grained Au films with high compressive strength. <i>Electrochemistry Communications</i> , 2016 , 67, 51-54 | 5.1 | 27 |
| 123 | Enhancement of mechanical strength in Au films electroplated with supercritical carbon dioxide. <i>Electrochemistry Communications</i> , 2016 , 72, 126-130 | 5.1 | 9 |
| 122 | Mechanical properties of Sn electrodeposited in supercritical CO ₂ emulsions using micro-compression test. <i>Microelectronic Engineering</i> , 2015 , 141, 219-222 | 2.5 | 4 |
| 121 | Large increase in fracture resistance of stishovite with crack extension less than one micrometer. <i>Scientific Reports</i> , 2015 , 5, 10993 | 4.9 | 19 |
| 120 | Crystal Growth of Cobalt Film Fabricated by Electrodeposition with Dense Carbon Dioxide. <i>Journal of the Electrochemical Society</i> , 2015 , 162, D423-D426 | 3.9 | 11 |

| | | | |
|-----|--|-----|----|
| 119 | Tensile behavior of micro-sized specimen made of single crystalline nickel. <i>Materials Letters</i> , 2015 , 153, 36-39 | 3.3 | 19 |
| 118 | Tensile behavior of micro-sized specimen fabricated from nanocrystalline nickel film. <i>Microelectronic Engineering</i> , 2015 , 141, 17-20 | 2.5 | 12 |
| 117 | Evaluations of Mechanical Properties of Electrodeposited Nickel Film by Using Micro-Testing Method. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2015 , 80, 7-12 | 0.4 | |
| 116 | Deformation Behaviour of Al-Mg Alloy Bi-Crystal Micro-Pillar Evaluated by Micro-Compression Test. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2015 , 80, 66-70 | 0.4 | 1 |
| 115 | Preparation and characterization of palladium-hydride-coated titanium as a reference electrode for the supercritical carbon dioxide emulsion electrochemical system. <i>Electrochimica Acta</i> , 2015 , 155, 209-216 | 6.7 | 2 |
| 114 | Mechanical behavior of a micro-sized pillar fabricated from ultrafine-grained ferrite evaluated by a microcompression test. <i>Acta Materialia</i> , 2014 , 73, 12-18 | 8.4 | 13 |
| 113 | Sample size effect of electrodeposited nickel with sub-10 nm grain size. <i>Materials Letters</i> , 2014 , 117, 256-259 | 3.3 | 23 |
| 112 | Effects of Fluorinated Surfactant in Cathodic Deposition of TiO ₂ Films with Supercritical CO ₂ Emulsified Electrolyte. <i>ECS Electrochemistry Letters</i> , 2014 , 3, D1-D2 | | 3 |
| 111 | Fabrication of TiO ₂ micro-structures by cathodic deposition. <i>Microelectronic Engineering</i> , 2014 , 121, 80-82.5 | | 5 |
| 110 | Porous nickel films plated in supercritical carbon dioxide emulsified electrolyte using a series of fluorinated nonionic surfactants. <i>Surface and Coatings Technology</i> , 2014 , 259, 325-329 | 4.4 | |
| 109 | Mechanical properties of Cu electroplated in supercritical CO ₂ emulsion evaluated by micro-compression test. <i>Microelectronic Engineering</i> , 2014 , 121, 83-86 | 2.5 | 4 |
| 108 | Electrodeposition of Tin Using Supercritical Carbon Dioxide Emulsions. <i>ECS Electrochemistry Letters</i> , 2014 , 3, D44-D45 | | 4 |
| 107 | Microstructure and Mechanical Properties of D-SSF Processed Al-Zn-Mg Alloys with High Fe Content. <i>Materials Science Forum</i> , 2014 , 794-796, 1109-1114 | 0.4 | 1 |
| 106 | Cu wiring into nano-scale holes by electrodeposition in supercritical carbon dioxide emulsified electrolyte with a continuous-flow reaction system. <i>Journal of Supercritical Fluids</i> , 2014 , 90, 60-64 | 4.2 | 10 |
| 105 | Mechanical properties of nickel fabricated by electroplating with supercritical CO ₂ emulsion evaluated by micro-compression test using non-tapered micro-sized pillar. <i>Microelectronic Engineering</i> , 2013 , 110, 270-273 | 2.5 | 31 |
| 104 | Micro-compression test using non-tapered micro-pillar of electrodeposited Cu. <i>Microelectronic Engineering</i> , 2013 , 111, 118-121 | 2.5 | 23 |
| 103 | Supercritical CO ₂ -Assisted Electrochemical Deposition of ZnO Mesocrystals for Practical Photoelectrochemical Applications. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 25596-25603 | 3.8 | 36 |
| 102 | Cathodic deposition of TiO ₂ thin films with supercritical CO ₂ emulsified electrolyte. <i>Electrochemistry Communications</i> , 2013 , 33, 68-71 | 5.1 | 4 |

| | | | |
|-----|--|-----|----|
| 101 | Abnormally large Ni grains epitaxially grown by electrodeposition on Cu substrate. <i>Thin Solid Films</i> , 2013 , 529, 385-388 | 2.2 | 5 |
| 100 | Crystal growth on novel Cu electroplating using suspension of supercritical CO ₂ in electrolyte with Cu particles. <i>Surface and Coatings Technology</i> , 2013 , 231, 77-80 | 4.4 | 14 |
| 99 | Micromechanical characterization of deformation behavior in ferrous lath martensite. <i>Journal of Alloys and Compounds</i> , 2013 , 577, S555-S558 | 5.7 | 11 |
| 98 | Solid-state ¹³ C NMR study of banana liquid crystals \square : Alkyl tail-group packing environments in the hexagonal columnar phase. <i>Journal of Molecular Structure</i> , 2013 , 1040, 117-121 | 3.4 | 1 |
| 97 | Effects of pressure on electroplating of copper using supercritical carbon dioxide emulsified electrolyte. <i>Thin Solid Films</i> , 2013 , 529, 25-28 | 2.2 | 29 |
| 96 | Crystallographic study on self-annealing of electroplated copper at room temperature. <i>Materials Science in Semiconductor Processing</i> , 2013 , 16, 633-639 | 4.3 | 12 |
| 95 | Quantitative study on removal of SU-8 photoresist patterns by supercritical CO ₂ emulsion. <i>Microelectronic Engineering</i> , 2013 , 110, 204-206 | 2.5 | 5 |
| 94 | Cu electroplating using suspension of supercritical carbon dioxide in copper-sulfate-based electrolyte with Cu particles. <i>Thin Solid Films</i> , 2013 , 529, 29-33 | 2.2 | 13 |
| 93 | Effects of chemical components on the bending properties of micro-sized cantilevers in three types of SU-8. <i>Microelectronic Engineering</i> , 2013 , 110, 108-111 | 2.5 | 1 |
| 92 | Micro-Compression Test of Nanocrystalline Nickel Deposited by Supercritical Carbon Dioxide Emulsion. <i>Applied Mechanics and Materials</i> , 2013 , 284-287, 163-167 | 0.3 | 1 |
| 91 | Intact Ultrathin Ni Films Fabricated by Electroplating with Supercritical CO ₂ Emulsion. <i>Applied Mechanics and Materials</i> , 2013 , 284-287, 147-151 | 0.3 | |
| 90 | Solid-state ¹³ C NMR study of banana liquid crystals \square : Two different alkyl tail-group packing environments in the B7 phase. <i>Journal of Molecular Structure</i> , 2012 , 1008, 49-53 | 3.4 | 6 |
| 89 | Filling of nanoscale holes with high aspect ratio by Cu electroplating using suspension of supercritical carbon dioxide in electrolyte with Cu particles. <i>Microelectronic Engineering</i> , 2012 , 97, 126-129 | 2.5 | 15 |
| 88 | Evaluation of anisotropic structure in electrodeposited Ni film using micro-sized cantilever. <i>Microelectronic Engineering</i> , 2012 , 100, 25-27 | 2.5 | 9 |
| 87 | Direct observation of sintering mechanics of a single grain boundary. <i>Acta Materialia</i> , 2012 , 60, 507-516 | 8.4 | 9 |
| 86 | Development of Supercritical Nano Plating and the Application into Superfine Wiring. <i>Journal of the Japan Society for Precision Engineering</i> , 2012 , 78, 1030-1033 | 0.1 | |
| 85 | Effects of Specimen Dimensions on Adhesive Shear Strength between a Microsized SU-8 Column and a Silicon Substrate. <i>Japanese Journal of Applied Physics</i> , 2012 , 51, 06FL19 | 1.4 | |
| 84 | Crystalline structure of polyethylene containing vinylene units in the main chain. <i>Polymer</i> , 2011 , 52, 4857-4866 | 3.9 | 2 |

| | | | |
|----|---|-----|-----|
| 83 | Defect-Free Nickel Micropillars Fabricated at a High Current Density by Application of a Supercritical Carbon Dioxide Emulsion. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 8080-8085 | 3.9 | 7 |
| 82 | Study on delamination mechanism of SU-8 micropillars on a Si-substrate under bend loading by Weibull analysis. <i>Microelectronic Engineering</i> , 2011 , 88, 2132-2134 | 2.5 | 3 |
| 81 | Effects of supercritical carbon dioxide treatment on bending properties of micro-sized SU-8 Specimens. <i>Microelectronic Engineering</i> , 2011 , 88, 2272-2274 | 2.5 | 7 |
| 80 | Void-free micro-pattern of nickel fabricated by electroplating with supercritical carbon dioxide emulsion. <i>Microelectronic Engineering</i> , 2011 , 88, 2225-2228 | 2.5 | 13 |
| 79 | PdNiB metallic glass pattern with controllable microstructure fabricated by electroless alloy plating. <i>Microelectronic Engineering</i> , 2011 , 88, 2401-2404 | 2.5 | 6 |
| 78 | Function and mechanism of supercritical carbon dioxide emulsified electrolyte in nickel electroplating reaction. <i>Surface and Coatings Technology</i> , 2011 , 205, 3890-3899 | 4.4 | 35 |
| 77 | Direct Observation of Nodule Growth on Electroless Ni-P Deposition in Supercritical CO ₂ Emulsion. <i>Journal of the Electrochemical Society</i> , 2011 , 159, D114-D118 | 3.9 | 4 |
| 76 | Strengthening effect of twin boundaries in bcc crystal evaluated through a micro-bending test. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1297, 161 | | 1 |
| 75 | Mechanical Behavior on Micro-compression Test in Ultra-low Carbon Steel Produced by High Pressure Torsion. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1297, 169 | | 2 |
| 74 | Direct Observation of the Change in Microstructure with Deformation in Ferrous Lath Martensite by Using Micro-Sized Specimen. <i>Materials Science Forum</i> , 2010 , 638-642, 3514-3519 | 0.4 | 1 |
| 73 | Effects of Aspect Ratio of Photoresist Patterns on Adhesive Strength between Microsized SU-8 Columns and Silicon Substrate under Bend Loading Condition. <i>Japanese Journal of Applied Physics</i> , 2010 , 49, 06GN14 | 1.4 | 3 |
| 72 | Effects of CO ₂ on NiB Electroless Plating in an Emulsion of Supercritical CO ₂ . <i>Journal of the Electrochemical Society</i> , 2010 , 157, D550 | 3.9 | 8 |
| 71 | ?????????????????????????????????. <i>Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan</i> , 2010 , 61, 561-565 | | 2 |
| 70 | Evaluation of the block boundary and sub-block boundary strengths of ferrous lath martensite using a micro-bending test. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 7538-7544 | 5.3 | 119 |
| 69 | Characterization of deformation-induced structural change of Pd ₇₈ Cu ₆ Si ₁₆ metallic glass using a micro-sized cantilever-beam specimen. <i>Scripta Materialia</i> , 2010 , 62, 309-312 | 5.6 | 8 |
| 68 | Bright nickel film deposited by supercritical carbon dioxide emulsion using additive-free Watts bath. <i>Electrochimica Acta</i> , 2010 , 55, 6469-6475 | 6.7 | 58 |
| 67 | Microstructural development of an electrodeposited Ni layer. <i>Thin Solid Films</i> , 2010 , 518, 5153-5158 | 2.2 | 20 |
| 66 | Impregnation of NiB metal into polymer substrate via catalyzation in Sc-CO ₂ and electroless plating in Sc-CO ₂ emulsion. <i>Surface and Coatings Technology</i> , 2010 , 204, 1785-1792 | 4.4 | 8 |

| | | | |
|----|--|-----|----|
| 65 | Hydrogen Permeability and Membrane Durability of Novel Pd/ γ -Alumina Graded Membrane When a Sweep Gas is Used. <i>Journal of Chemical Engineering of Japan</i> , 2010 , 43, 932-937 | 0.8 | |
| 64 | Functionally graded Pd/ γ -alumina composite membrane fabricated by electroless plating with emulsion of supercritical CO ₂ . <i>Journal of Membrane Science</i> , 2009 , 342, 321-326 | 9.6 | 15 |
| 63 | Structure and dynamics of poly(ethylene-co-1,5-hexadiene) as studied by solid state ¹³ C NMR and quantum chemical calculations. <i>Journal of Molecular Structure</i> , 2009 , 921, 208-214 | 3.4 | 7 |
| 62 | PdNiB metallic glass film fabricated by electroless alloy plating. <i>Thin Solid Films</i> , 2009 , 517, 1935-1938 | 2.2 | 17 |
| 61 | Effects of Sc-CO ₂ catalyzation in metallization on polymer by electroless plating. <i>Surface and Coatings Technology</i> , 2009 , 203, 1971-1978 | 4.4 | 14 |
| 60 | Metallization on polymer via quantitatively controlled catalyzation in ScCO ₂ and electroless plating with ScCO ₂ emulsion for micro and nano-device. <i>Microelectronic Engineering</i> , 2009 , 86, 1179-1182 | 2.5 | 8 |
| 59 | Liquid Crystalline Features of Optically Active Poly(methylene-1,3-cyclopentane). <i>Macromolecules</i> , 2009 , 42, 7631-7633 | 5.5 | 17 |
| 58 | Development of a Liquid Crystalline Polyolefin Approach from Molecular Design. <i>Kobunshi Ronbunshu</i> , 2009 , 66, 381-395 | 0 | |
| 57 | Liquid Crystalline Features in a Polyolefin of Poly(methylene-1,3-cyclopentane). <i>Macromolecules</i> , 2008 , 41, 7448-7452 | 5.5 | 28 |
| 56 | Characterization of texture and microstructure of electrodeposited Ni layers. <i>Materials Research Society Symposia Proceedings</i> , 2008 , 1112, 1 | | 1 |
| 55 | Effects of Aspect Ratio of Micro-sized Photoresist Patterns on Bond Strength between a Si Substrate with AFM Fracture Observation. <i>Materials Research Society Symposia Proceedings</i> , 2008 , 1139, 1 | | |
| 54 | Metallization on polymer by catalyzation in supercritical CO ₂ and electroless plating in dense CO ₂ emulsion. <i>Surface and Coatings Technology</i> , 2008 , 202, 3921-3926 | 4.4 | 17 |
| 53 | Fabrication of a novel Pd/ γ -alumina graded membrane by electroless plating on nanoporous γ -alumina. <i>Journal of Membrane Science</i> , 2008 , 324, 181-187 | 9.6 | 15 |
| 52 | Novel porous film by electroplating with an emulsion of supercritical CO ₂ . <i>Surface and Coatings Technology</i> , 2007 , 201, 7513-7518 | 4.4 | 7 |
| 51 | Effect of Crystallographic Structure of Substrate on Texture in Electrodeposited Ni Layers. <i>Materials Research Society Symposia Proceedings</i> , 2007 , 1054, 20 | | |
| 50 | Study on liquid crystallinity in 2,9-dialkylpentacenes. <i>Liquid Crystals</i> , 2007 , 34, 1001-1007 | 2.3 | 27 |
| 49 | Fabrication of Pd _x Ni _y P _{100-x-y} Metallic Glass Film by Electroless Alloy Plating and its Catalyst Activity. <i>Materials Research Society Symposia Proceedings</i> , 2007 , 1048, 9 | | |
| 48 | Effects of Supercritical Carbon Dioxide on Adhesive Strength between Micro-sized Photoresist Patterns and Silicon Substrates. <i>Materials Research Society Symposia Proceedings</i> , 2007 , 1052, 1 | | 2 |

| | | | |
|----|---|-----|----|
| 47 | Development of New Evaluation Method for Adhesive Strength between Microsized Photoresist and Si Substrate of MEMS Devices. <i>Key Engineering Materials</i> , 2007 , 345-346, 1185-1188 | 0.4 | 6 |
| 46 | Uniform Ni-P Film Using an Electroless Plating Method with an Emulsion of Supercritical Carbon Dioxide. <i>Journal of the Electrochemical Society</i> , 2007 , 154, E91 | 3.9 | 17 |
| 45 | Interface Stability between Ni-P film plated by Supercritical Electroless Plating and the Polymer Substrate. <i>Materials Research Society Symposia Proceedings</i> , 2007 , 1054, 3 | | |
| 44 | Fabrication Method of the Micro-Sized Tensile Specimen for Inspecting Size Effects by Electrolytic Polishing Technique. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2007 , 71, 170-175 ^{0.4} | | 2 |
| 43 | Effects of P Content on Nanocrystalline Morphology Formed by FIB Irradiation in Ni-P Amorphous Alloy. <i>Materials Transactions</i> , 2007 , 48, 1694-1697 | 1.3 | 1 |
| 42 | Evaluation of Micro-Sized BMG Tensile Specimen Fabricated by Electrolytic Polishing Technique. <i>Materials Transactions</i> , 2007 , 48, 1785-1788 | 1.3 | |
| 41 | Effects of heat curing on adhesive strength between microsized SU-8 and Si substrate 2007 , | | 3 |
| 40 | Size Effects of the Micro-Sized Polycrystalline SUS304 Tensile Specimen Fabricated by Electrolytic Polishing Technique. <i>Transactions of the Materials Research Society of Japan</i> , 2007 , 32, 1187-1190 | 0.2 | |
| 39 | Surface Flatness and Interface Stability of Ni-P Film using New Electroless Plating Method with the Emulsion of Supercritical CO ₂ . <i>Materials Research Society Symposia Proceedings</i> , 2006 , 968, 1 | | |
| 38 | Aromatic Polyesters with Flexible Side Chains. 10. Studies on Biaxiality in Nematic Liquid Crystal of BC-n Polyester. <i>Polymer Journal</i> , 2006 , 38, 442-446 | 2.7 | 5 |
| 37 | Light-induced formation of curved needle texture by circularly polarized light irradiation on a discotic liquid crystal containing a racemic chromium complex. <i>Liquid Crystals</i> , 2006 , 33, 671-679 | 2.3 | 9 |
| 36 | Fabrication of Thin Palladium Membrane by Electroplating Coexisting with Supercritical Carbon Dioxide. <i>Membrane</i> , 2006 , 31, 332-336 | 0 | 1 |
| 35 | Electrochemical polymerization of pyrrole in supercritical carbon dioxide-in-water emulsion. <i>Polymer</i> , 2006 , 47, 1547-1554 | 3.9 | 22 |
| 34 | Wear properties of nickel coating film plated from emulsion with dense carbon dioxide. <i>Surface and Coatings Technology</i> , 2006 , 201, 606-611 | 4.4 | 7 |
| 33 | Nano-grain structure of nickel films prepared by emulsion plating using dense carbon dioxide. <i>Surface and Coatings Technology</i> , 2005 , 190, 200-205 | 4.4 | 25 |
| 32 | Nanograin deposition via an electroplating reaction in an emulsion of dense carbon dioxide in a nickel electroplating solution using nonionic fluorinated surfactant. <i>Surface and Coatings Technology</i> , 2005 , 194, 149-156 | 4.4 | 6 |
| 31 | New electroplating method of nickel in emulsion of supercritical carbon dioxide and electroplating solution to enhance uniformity and hardness of plated film. <i>Thin Solid Films</i> , 2004 , 446, 194-199 | 2.2 | 58 |
| 30 | The effects of dense carbon dioxide on nickel plating using emulsion of carbon dioxide in electroplating solution. <i>Surface and Coatings Technology</i> , 2004 , 182, 329-334 | 4.4 | 33 |

| | | | |
|----|--|-----|-----|
| 29 | Electroplating in CO ₂ -in-water and water-in-CO ₂ emulsions using a nickel electroplating solution with anionic fluorinated surfactant. <i>Surface and Coatings Technology</i> , 2004 , 187, 86-92 | 4.4 | 26 |
| 28 | Solid-State ¹³ C NMR Study of Chiral Twisted Conformation Attributable to Chirality in Smectic Phases of Achiral Banana-Shaped Molecules. <i>Journal of Physical Chemistry A</i> , 2004 , 108, 4674-4678 | 2.8 | 63 |
| 27 | Application of emulsion of dense carbon dioxide in electroplating solution with nonionic surfactants for nickel electroplating. <i>Surface and Coatings Technology</i> , 2003 , 173, 285-292 | 4.4 | 66 |
| 26 | Polymer Plays Great Roles in "Supercritical Nano Plating System". <i>Kobunshi</i> , 2003 , 52, 709-709 | | |
| 25 | 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. <i>Polymer Journal</i> , 2002 , 34, 291-297 | 2.7 | 22 |
| 24 | Electroplating of Nanostructured Nickel in Emulsion of Supercritical Carbon Dioxide in Electrolyte Solution. <i>Chemistry Letters</i> , 2002 , 31, 1086-1087 | 1.7 | 59 |
| 23 | Crystalline Structure of Polyethylene Containing 1,2- or 1,3-Disubstituted Cyclopentane Units in the Main Chain. <i>Macromolecules</i> , 2002 , 35, 9999-10003 | 5.5 | 21 |
| 22 | Cycloaddition of Oxirane Group with Carbon Dioxide in the Supercritical Homogeneous State. <i>Industrial & Engineering Chemistry Research</i> , 2002 , 41, 5353-5358 | 3.9 | 38 |
| 21 | Red-Light-Emitting Organic Electroluminescent Devices with Bisanil Dye as Emitter. <i>Japanese Journal of Applied Physics</i> , 2001 , 40, 3201-3205 | 1.4 | 29 |
| 20 | Effects of ammonium salt doping on electroluminescence properties of 4,4-bis(9-dicarbazolyl)-biphenyl. <i>Journal Physics D: Applied Physics</i> , 2001 , 34, 3492-3495 | 3 | 8 |
| 19 | Influence of sensitizer on organic electroluminescence. <i>Journal of Applied Physics</i> , 2001 , 89, 7895-7898 | 2.5 | 21 |
| 18 | Blue and yellow emission from derivatives of tris(8-hydroxyquinoline)aluminium light-emitting diodes. <i>Journal Physics D: Applied Physics</i> , 2001 , 34, 2679-2682 | 3 | 10 |
| 17 | NARROW BANDWIDTH BRIGHT SCARLET ORGANIC ELECTROLUMINESCENT DEVICE BASED ON N,N'-BIS[4-(N,N-DIMETHYLAMONO)-BENZYLIDENE]-DIAMINOMALEONITRILE DYE. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2001 , 38, 1539-1547 | 2.2 | 1 |
| 16 | Aromatic Polyesters with Flexible Side Chains. 8. Studies on Long Periodical Structure Observed in Layered Crystalline Phase. <i>Macromolecules</i> , 2000 , 33, 8367-8370 | 5.5 | 17 |
| 15 | High resolution ¹³ C NMR studies for crystalline and liquid crystalline phases of PB-18 polyester composed of 4,4'-dihydroxybiphenyl and octadecanedioic acid. <i>Journal of Molecular Structure</i> , 1998 , 446, 215-221 | 3.4 | 7 |
| 14 | Rigid-Rod Polyesters with Flexible Side Chains Based on 1,4-Dialkyl Esters of Pyromellitic Acid and 4,4'-Biphenol. 7. Fluorescence Studies on Crystalline and Liquid Crystalline Layered Phases over a Wide Range of Temperatures. <i>Macromolecules</i> , 1998 , 31, 8865-8870 | 5.5 | 13 |
| 13 | Origin of Helix in Achiral Banana-Shaped Molecular Systems. <i>Japanese Journal of Applied Physics</i> , 1997 , 36, 6455-6463 | 1.4 | 251 |
| 12 | Charge transfer interactions in liquid crystalline polymers probed by fluorescence spectroscopy. <i>Macromolecular Symposia</i> , 1997 , 116, 105-115 | 0.8 | 1 |

| | | | |
|----|--|-----|----|
| 11 | Nematic Liquid Crystals with Polar Ordering Formed from Simple Aromatic Polyester. <i>Japanese Journal of Applied Physics</i> , 1996 , 35, L505-L507 | 1.4 | 43 |
| 10 | 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. <i>Macromolecules</i> , 1996 , 29, 4816-4818 | 5.5 | 49 |
| 9 | Fluorescence Study on Intermolecular Interactions between Mesogenic Biphenyl Moieties of a Thermotropic Liquid-Crystalline Polyester (PB-10). <i>Macromolecules</i> , 1996 , 29, 3485-3490 | 5.5 | 28 |
| 8 | Fluorescence study of a thermotropic liquid crystal: Bis (p-hexyloxyphenyl) terephthalate. <i>Liquid Crystals</i> , 1996 , 21, 505-510 | 2.3 | 6 |
| 7 | Side-chain conformation of poly(l-proline) form II in the crystalline state as studied by high-resolution solid-state ¹³ C NMR spectroscopy. <i>Journal of Molecular Structure</i> , 1994 , 317, 111-118 | 3.4 | 11 |
| 6 | 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. <i>Macromolecules</i> , 1994 , 27, 507-512 | 5.5 | 72 |
| 5 | Rigid-Rod Polyesters with Flexible Side Chains Based on 1,4-Dialkyl Esters of Pyromellitic Acid and 4,4'-Biphenol. 5. High-Resolution ¹³ C NMR Studies for Crystalline and Liquid Crystalline Layered Phases. <i>Macromolecules</i> , 1994 , 27, 2769-2777 | 5.5 | 33 |
| 4 | 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. <i>Polymer Journal</i> , 1993 , 25, 997-1001 | 2.7 | 22 |
| 3 | Ring puckering of the pyrrolidine ring of poly (l-proline) form I as studied by variable-temperature high-resolution ¹³ C NMR spectroscopy. <i>Journal of Molecular Structure</i> , 1993 , 301, 227-230 | 3.4 | 7 |
| 2 | 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. <i>Polymer Journal</i> , 1992 , 24, 1119-1127 | 2.7 | 18 |
| 1 | The Structure and Micro-Mechanical Properties of Electrodeposited Cobalt Films by Micro-Compression Test. <i>Journal of the Electrochemical Society</i> , | 3.9 | 1 |