List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Optically induced rotation of anisotropic microâ€øbjects fabricated by surface micromachining. Applied Physics Letters, 1994, 64, 2209-2210. | 3.3 | 256 |
| 2 | Low-Temperature Bonding of Laser Diode Chips on Silicon Substrates Using Plasma Activation of Au Films. IEEE Photonics Technology Letters, 2007, 19, 1994-1996. | 2.5 | 108 |
| 3 | Au–Au Surface-Activated Bonding and Its Application to Optical Microsensors With 3-D Structure. IEEE Journal of Selected Topics in Quantum Electronics, 2009, 15, 1500-1505. | 2.9 | 95 |
| 4 | Optically induced rotation of dissymmetrically shaped fluorinated polyimide micro-objects in optical traps. Journal of Applied Physics, 1997, 82, 2773-2779. | 2.5 | 91 |
| 5 | Highly accurate and quick bonding of a laser-diode chip onto a planar lightwave circuit. Precision Engineering, 2001, 25, 293-300. | 3.4 | 89 |
| 6 | Room-Temperature Bonding of Vertical-Cavity Surface-Emitting Laser Chips on Si Substrates Using Au Microbumps in Ambient Air. Applied Physics Express, 0, 1, 112201. | 2.4 | 76 |
| 7 | Optically induced angular alignment of trapped birefringent micro-objects by linearly polarized light. Physical Review E, 1999, 59, 3676-3681. | 2.1 | 65 |
| 8 | An integrated laser blood flowmeter. Journal of Lightwave Technology, 2003, 21, 591-595. | 4.6 | 60 |
| 9 | Optically induced rotation of a trapped micro-object about an axis perpendicular to the laser beam axis. Applied Physics Letters, 1998, 72, 2951-2953. | 3.3 | 49 |
| 10 | Integrated micro-displacement sensor that measures tilting angle and linear movement of an external mirror. Sensors and Actuators A: Physical, 2007, 138, 269-275. | 4.1 | 43 |
| 11 | Low-temperature hermetic packaging for microsystems using Au–Au surface-activated bonding at atmospheric pressure. Journal of Micromechanics and Microengineering, 2012, 22, 055026. | 2.6 | 42 |
| 12 | Comparison of Argon and Oxygen Plasma Treatments for Ambient Room-Temperature Wafer-Scale Au–Au Bonding Using Ultrathin Au Films. Micromachines, 2019, 10, 119. | 2.9 | 42 |
| 13 | Lithium niobate ridged waveguides with smooth vertical sidewalls fabricated by an ultra-precision cutting method. Optics Express, 2014, 22, 27733. | 3.4 | 40 |
| 14 | Surface activated bonding of GaAs and SiC wafers at room temperature for improved heat dissipation in high-power semiconductor lasers. Japanese Journal of Applied Physics, 2015, 54, 030207. | 1.5 | 39 |
| 15 | Passive Alignment and Mounting of LiNbO\$_3\$ Waveguide Chips on Si Substrates by Low-Temperature Solid-State Bonding of Au. IEEE Journal of Selected Topics in Quantum Electronics, 2011, 17, 652-658. | 2.9 | 37 |
| 16 | Micro-encoder based on higher-order diffracted light interference. Journal of Micromechanics and Microengineering, 2005, 15, 1459-1465. | 2.6 | 36 |
| 17 | Optically induced angular alignment of birefringent micro-objects by linear polarization. Applied Physics Letters, 1998, 73, 3034-3036. | 3.3 | 34 |
| 18 | Air-gap structure between integrated LiNbO_3 optical modulators and micromachined Si substrates. Optics Express, 2011, 19, 15739. | 3.4 | 34 |

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Room-Temperature Bonding of Wafers with Smooth Au Thin Films in Ambient Air Using a Surface-Activated Bonding Method. IEICE Transactions on Electronics, 2017, E100.C, 156-160. | 0.6 | 33 |
| 20 | Integrated microlaser Doppler velocimeter. Journal of Lightwave Technology, 1999, 17, 30-34. | 4.6 | 32 |
| 21 | Hybrid microlaser encoder. Journal of Lightwave Technology, 2003, 21, 815-820. | 4.6 | 31 |
| 22 | Void-Free Room-Temperature Silicon Wafer Direct Bonding Using Sequential Plasma Activation. Japanese Journal of Applied Physics, 2008, 47, 2526. | 1.5 | 30 |
| 23 | Detection of Site-Specific Blood Flow Variation in Humans during Running by a Wearable Laser Doppler Flowmeter. Sensors, 2015, 15, 25507-25519. | 3.8 | 27 |
| 24 | High-Speed InP/InGaAsSb DHBT on High-Thermal-Conductivity SiC Substrate. IEEE Electron Device Letters, 2018, 39, 807-810. | 3.9 | 27 |
| 25 | Grasping Force Control for a Robotic Hand by Slip Detection Using Developed Micro Laser Doppler Velocimeter. Sensors, 2018, 18, 326. | 3.8 | 26 |
| 26 | Transient liquid-phase sintering using silver and tin powder mixture for die bonding. Japanese Journal of Applied Physics, 2016, 55, 04EC14. | 1.5 | 25 |
| 27 | Shearing force measurement device with a built-in integrated micro displacement sensor. Sensors and Actuators A: Physical, 2015, 221, 1-8. | 4.1 | 24 |
| 28 | Review of Lowâ€Temperature Bonding Technologies and Their Application in Optoelectronic Devices. Electronics and Communications in Japan, 2016, 99, 63-71. | 0.5 | 24 |
| 29 | Optical trapping of low-refractive-index microfabricated objects using radiation pressure exerted on their inner walls. Optics Letters, 1995, 20, 1931. | 3.3 | 23 |
| 30 | Monolithically integrated optical displacement sensor based on triangulation and optical beam deflection. Applied Optics, 1999, 38, 1746. | 2.1 | 23 |
| 31 | Room-temperature wafer bonding of LiNbO3 and SiO2 using a modified surface activated bonding method. Japanese Journal of Applied Physics, 2018, 57, 06HJ12. | 1.5 | 23 |
| 32 | Effect of Au Film Thickness and Surface Roughness on Room-Temperature Wafer Bonding and Wafer-Scale Vacuum Sealing by Au-Au Surface Activated Bonding. Micromachines, 2020, 11, 454. | 2.9 | 23 |
| 33 | Integrated Laser Doppler Blood Flowmeter Designed to Enable Wafer-Level Packaging. IEEE Transactions on Biomedical Engineering, 2010, 57, 2026-2033. | 4.2 | 22 |
| 34 | Development of a Wireless Sensor for the Measurement of Chicken Blood Flow Using the Laser Doppler Blood Flow Meter Technique. IEEE Transactions on Biomedical Engineering, 2013, 60, 1645-1653. | 4.2 | 22 |
| 35 | Room-Temperature Gold-Gold Bonding Method Based on Argon and Hydrogen Gas Mixture Atmospheric-Pressure Plasma Treatment for Optoelectronic Device Integration. IEICE Transactions on Electronics, 2016, E99.C, 339-345. | 0.6 | 22 |
| 36 | Monolithic-integrated microlaser encoder. Applied Optics, 1999, 38, 6866. | 2.1 | 21 |

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Thermal conductance of silicon interfaces directly bonded by room-temperature surface activation. Applied Physics Letters, 2015, 106, . | 3.3 | 21 |
| 38 | Optically driven angular alignment of microcomponents made of in-plane birefringent polyimide film based on optical angular momentum transfer. Journal of Micromechanics and Microengineering, 2001, 11, 140-145. | 2.6 | 20 |
| 39 | Three-dimensional integrated CMOS image sensors with pixel-parallel A/D converters fabricated by direct bonding of SOI layers. , 2014, , . | | 19 |
| 40 | 3-D Silicon-on-Insulator Integrated Circuits With NFET and PFET on Separate Layers Using Au/SiO ₂ Hybrid Bonding. IEEE Transactions on Electron Devices, 2014, 61, 2886-2892. | 3.0 | 19 |
| 41 | Room-temperature direct bonding of germanium wafers by surface-activated bonding method. Japanese Journal of Applied Physics, 2015, 54, 030213. | 1.5 | 19 |
| 42 | Low-temperature direct bonding of diamond (100) substrate on Si wafer under atmospheric conditions. Scripta Materialia, 2021, 191, 52-55. | 5.2 | 19 |
| 43 | Low-Temperature Au-to-Au Bonding for LiNbO3/Si Structure Achieved in Ambient Air. IEICE Transactions on Electronics, 2007, E90-C, 145-146. | 0.6 | 19 |
| 44 | Fabrication of micro IC probe for LSI testing. Sensors and Actuators A: Physical, 2000, 80, 126-131. | 4.1 | 18 |
| 45 | Single Si crystal 1024 ch MEMS mirror based on terraced electrodes and a high-aspect ratio torsion spring for 3-D cross-connect switch. , 0, , . | | 18 |
| 46 | Pixel-Parallel 3-D Integrated CMOS Image Sensors With Pulse Frequency Modulation A/D Converters Developed by Direct Bonding of SOI Layers. IEEE Transactions on Electron Devices, 2015, 62, 3530-3535. | 3.0 | 18 |
| 47 | Low-Temperature Direct Bonding of Flip-Chip Mountable VCSELs with Au-Au Surface Activation. IEEJ Transactions on Sensors and Micromachines, 2008, 128, 266-270. | 0.1 | 17 |
| 48 | (Invited) Low-Temperature Bonding Technologies for Photonics Applications. ECS Transactions, 2013, 50, 351-362. | 0.5 | 17 |
| 49 | Quarter Video Graphics Array Digital Pixel Image Sensing With a Linear and Wide- Dynamic-Range Response by Using Pixel-Wise 3-D Integration. IEEE Transactions on Electron Devices, 2019, 66, 969-975. | 3.0 | 17 |
| 50 | Improved single crystalline mirror actuated electrostatically by terraced electrodes with high-aspect ratio torsion spring. , 0, , . | | 16 |
| 51 | Room-temperature transfer bonding of lithium niobate thin film on micromachined silicon substrate with Au microbumps. Sensors and Actuators A: Physical, 2017, 264, 274-281. | 4.1 | 16 |
| 52 | Residual Stress in Lithium Niobate Film Layer of LNOI/Si Hybrid Wafer Fabricated Using Low-Temperature Bonding Method. Micromachines, 2019, 10, 136. | 2.9 | 15 |
| 53 | An accelerometer incorporating a laser microencoder for a wide measurable range. Sensors and Actuators A: Physical, 2007, 136, 161-167. | 4.1 | 14 |
| 54 | Integrated micro-displacement sensor that uses beam divergence. Journal of Micromechanics and Microengineering, 2003, 13, 942-947. | 2.6 | 13 |

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|----|--|-----|-----------|
| 55 | Low-Temperature Bonding of GaN on Si Using a Nonalloyed Metal Ohmic Contact Layer for GaN-Based Heterogeneous Devices. IEEE Journal of Quantum Electronics, 2012, 48, 182-186. | 1.9 | 13 |
| 56 | Properties of various plasma surface treatments for low-temperature Au–Au bonding. Japanese Journal of Applied Physics, 2018, 57, 04FC12. | 1.5 | 13 |
| 57 | Optical Microsensors Integration Technologies for Biomedical Applications. IEICE Transactions on Electronics, 2009, E92-C, 231-238. | 0.6 | 13 |
| 58 | Achievement of laser fusion of biological cells using UV pulsed dye laser beams. Applied Physics B, Photophysics and Laser Chemistry, 1992, 54, 531-533. | 1.5 | 12 |
| 59 | Electrical properties of Si-based junctions by SAB. , 2012, , . | | 12 |
| 60 | Development and evaluation of a two-axial shearing force sensor consisting of an optical sensor chip and elastic gum frame. Precision Engineering, 2016, 45, 136-142. | 3.4 | 12 |
| 61 | Surface activated bonding of Au/Cr, Au/Ta and Au/Pt/Ti films after degas annealing for Si/sapphire gas cell. Microelectronic Engineering, 2019, 214, 68-73. | 2.4 | 12 |
| 62 | De-bondable SiC SiC wafer bonding via an intermediate Ni nano-film. Applied Surface Science, 2019, 465, 591-595. | 6.1 | 12 |
| 63 | Low-Temperature Solid-State Bonding Using Hydrogen Radical Treated Solder for Optoelectronic and MEMS Packaging. ECS Transactions, 2014, 64, 267-274. | 0.5 | 11 |
| 64 | Development of a Built-In Micro-Laser Doppler Velocimeter. Journal of Microelectromechanical Systems, 2016, 25, 380-387. | 2.5 | 11 |
| 65 | Room temperature bonding of aluminum nitride ceramic and semiconductor substrate. Ceramics International, 2020, 46, 25956-25963. | 4.8 | 11 |
| 66 | Application of thin Au/Ti double-layered films as both low-temperature bonding layer and residual gas gettering material for MEMS encapsulation. Microelectronic Engineering, 2021, 238, 111513. | 2.4 | 11 |
| 67 | Nanometer-displacement detection of optically trapped metallic particles based on critical angle method for small force detection. Review of Scientific Instruments, 1999, 70, 3068-3073. | 1.3 | 10 |
| 68 | Heterogeneous GaN-Si integration via plasma activation direct bonding. Journal of Alloys and Compounds, 2021, 852, 156933. | 5.5 | 10 |
| 69 | Heterogeneous direct bonding of diamond and semiconductor substrates using NH3/H2O2 cleaning. Applied Physics Letters, 2020, 117, 201601. | 3.3 | 10 |
| 70 | A Three-Dimensional Micro-Electro-Mechanical System (MEMS) Optical Switch Module Using Low-Cost Highly Accurate Polymer Components. Japanese Journal of Applied Physics, 2004, 43, 5824-5827. | 1.5 | 9 |
| 71 | Evaluation of surface microroughness for surface activated bonding. , 2010, , . | | 9 |
| 72 | Heterogeneous integration based on low-temperature bonding for advanced optoelectronic devices. Japanese Journal of Applied Physics, 2018, 57, 04FA02. | 1.5 | 9 |

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 73 | Ultrathin adhesive layer between LiNbO3 and SiO2 for bonded LNOI waveguide applications. Japanese Journal of Applied Physics, 2019, 58, SJJE06. | 1.5 | 9 |
| 74 | Low-temperature direct bonding of SiC and Ga2O3 substrates under atmospheric conditions. Journal of Applied Physics, 2021, 130, . | 2.5 | 9 |
| 75 | Axial and Lateral Displacement Measurements of a Microsphere Based on the Critical-Angle Method. Japanese Journal of Applied Physics, 1998, 37, 4191-4196. | 1.5 | 8 |
| 76 | Low-power consumption integrated laser Doppler blood flowmeter with a built-in silicon microlens. , 2008, , . | | 8 |
| 77 | Demonstration of GaN/LiNbO3 Hybrid Wafer Using Room-Temperature Surface Activated Bonding. ECS Journal of Solid State Science and Technology, 2020, 9, 045005. | 1.8 | 8 |
| 78 | Integrated microlaser displacement sensor. Journal of Micromechanics and Microengineering, 2002, 12, 286-290. | 2.6 | 7 |
| 79 | Low-temperature bonding of laser diode chips on Si substrates with oxygen and hydrogen atmospheric-pressure plasma activation. , 2009, , . | | 7 |
| 80 | Miniaturization of a Laser Doppler Blood Flow Sensor by Systemâ€inâ€Package Technology: Fusion of an Optical Microelectromechanical Systems Chip and Integrated Circuits. IEEJ Transactions on Electrical and Electronic Engineering, 2010, 5, 137-142. | 1.4 | 7 |
| 81 | SOI platform and III-V integrated active photonic device by direct bonding for data communication. , 2012, , . | | 7 |
| 82 | Quarter Video Graphics Array Full-Digital Image Sensing with Wide Dynamic Range and Linear Output Using Pixel-Wise 3D Integration. , 2018, , . | | 7 |
| 83 | Room-temperature pressureless wafer-scale hermetic sealing in air and vacuum using surface activated bonding with ultrathin Au films. Japanese Journal of Applied Physics, 2020, 59, SBBB01. | 1.5 | 7 |
| 84 | Residue-Free Solder Bumping Using Small AuSn Particles by Hydrogen Radicals. IEICE Transactions on Electronics, 2009, E92-C, 247-251. | 0.6 | 6 |
| 85 | Use of a simple arm-raising test with a portable laser Doppler blood flow meter to detect dehydration. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2011, 225, 411-419. | 1.8 | 6 |
| 86 | Useful method to monitor the physiological effects of alcohol ingestion by combination of micro-integrated laser Doppler blood flow meter and arm-raising test. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2012, 226, 759-765. | 1.8 | 6 |
| 87 | Comparable Accuracy of Micro-Electromechanical Blood Flowmetry-Based Analysis vs. Electrocardiography-Based Analysis in Evaluating Heart Rate Variability. Circulation Journal, 2015, 79, 794-801. | 1.6 | 6 |
| 88 | 128 × 96 Pixel-parallel three-dimensional integrated CMOS image sensors with 16-bit A/D converters: By direct bonding with embedded Au electrodes. , 2015, , . | | 6 |
| 89 | Low-temperature direct bonding of InP and diamond substrates under atmospheric conditions. Scientific Reports, 2021, 11, 11109. | 3.3 | 6 |
| 90 | Review of Low-temperature Bonding Technologies and Their Application in Optoelectronic Devices. IEEJ Transactions on Sensors and Micromachines, 2014, 134, 159-165. | 0.1 | 6 |

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|-----|---|-----|-----------|
| 91 | Low-temperature LD direct bonding for highly functional optical MEMS. , 2005, , . | | 5 |
| 92 | Development of a micro displacement sensor with monolithic-integrated two-dimensionally distributed photodiodes. , 2009, , . | | 5 |
| 93 | Low-temperature bonding of laser diode chips using atmospheric-pressure plasma activation of flat topped Au stud bumps with smooth surfaces. , 2012, , . | | 5 |
| 94 | Three-dimensional integrated circuits with NFET and PFET on separate layers fabricated by low temperature Au/SiO2 hybrid bonding. , 2013, , . | | 5 |
| 95 | Electrical pumping Fabry–Perot lasing of a III-V layer on a highly doped silicon micro rib. Laser Physics Letters, 2014, 11, 115807. | 1.4 | 5 |
| 96 | Low-temperature GaAs/SiC wafer bonding with Au thin film for high-power semiconductor lasers. , 2014, , . | | 5 |
| 97 | Room-temperature wafer bonding with smooth Au thin film in ambient air using Ar RF plasma activation. , 2014, , . | | 5 |
| 98 | Development of a miniaturized laser Doppler velocimeter for use as a slip sensor for robot hand control. , 2015, , . | | 5 |
| 99 | Demonstration of ultraprecision ductile-mode cutting for lithium niobate microring waveguides. Japanese Journal of Applied Physics, 2016, 55, 110304. | 1.5 | 5 |
| 100 | Au / SiO ₂ Hybrid Bonding with 6-μm-Pitch Au Electrodes for 3D Structured Image Sensors. ECS Transactions, 2016, 75, 103-106. | 0.5 | 5 |
| 101 | Suppressed Self-Heating in Multi-Finger InP-Based DHBTs with Au Subcollector Fabricated on SiC Substrate by Surface-Activated Bonding. ECS Transactions, 2016, 75, 97-102. | 0.5 | 5 |
| 102 | Surface activation process of lead-free solder bumps for low temperature bonding. , 0, , . | | 4 |
| 103 | Room temperature GaN-GaAs direct bonding by argon-beam surface activation. Proceedings of SPIE, 2007, , . | 0.8 | 4 |
| 104 | Combined Device of Optical Microdisplacement Sensor and PZT-Actuated Micromirror. , 2007, , . | | 4 |
| 105 | Room Temperature Si/Si Wafer Direct Bonding in Air. , 2007, , . | | 4 |
| 106 | Miniaturized polarization sensors integrated with wire-grid polarizers. , 2014, , . | | 4 |
| 107 | (Invited) Pixel-Parallel CMOS Image Sensors with 16-Bit A/D Converters Developed by 3-D Integration of SOI Layers with Au/SiO2 Hybrid Bonding. ECS Transactions, 2016, 72, 3-6. | 0.5 | 4 |
| 108 | In-pixel A/D converters with 120-dB dynamic range using event-driven correlated double sampling for stacked SOI image sensors. , 2016, , . | | 4 |

| # | Article | IF | CITATIONS |
|-----|---|-----|-----------|
| 109 | Hydrogen radical treatment for indium surface oxide removal and re-oxidation behaviour. , 2017, , . | | 4 |
| 110 | Evaluation of hydrogen radical treatment for indium surface oxide removal and analysis of re-oxidation behavior. Japanese Journal of Applied Physics, 2018, 57, 02BC01. | 1.5 | 4 |
| 111 | Surface Activated Bonding of LiNbO3 and GaN at Room Temperature. ECS Transactions, 2018, 86, 207-213. | 0.5 | 4 |
| 112 | 3-Layer Stacking Technology with Pixel-Wise Interconnections for Image Sensors Using Hybrid Bonding of Silicon-on-Insulator Wafers Mediated by Thin Si Layers. , 2022, , . | | 4 |
| 113 | <title>Numerical analysis of an optical motor based on the radiation pressure</title> . , 1996, 2882, 333. | | 3 |
| 114 | Integrated micro focusing and tracking sensor. Journal of Micromechanics and Microengineering, 1999, 9, 71-77. | 2.6 | 3 |
| 115 | Low-temperature bonding of a LiNbO 3 waveguide chip to a Si substrate in ambient air for hybrid-integrated optical devices. , 2006, 6376, 16. | | 3 |
| 116 | Effect of SAB process on GaN surfaces for low temperature bonding. , 2007, , . | | 3 |
| 117 | A micro optical blood flow sensor and its application to detection of avian influenza. , 2009, , . | | 3 |
| 118 | Semiconductive properties of heterointegration of INP/INGAAS on high doped silicon wire waveguide for silicon hybrid laser. , 2009, , . | | 3 |
| 119 | Micro integrated laser Doppler blood flow sensor and its application to dehydration prevention. , 2009, , . | | 3 |
| 120 | Electrical pumping to III-V layer from highly doped silicon micro wire to realize light emission by plasmaassisted bonding technology. , 2010, , . | | 3 |
| 121 | Three-dimensional integrated circuits and stacked CMOS image sensors using direct bonding of SOI layers. , 2015, , . | | 3 |
| 122 | Low temperature Au-Au surface-activated bonding using nitrogen atmospheric-pressure plasma treatment for optical microsystems. , 2015, , . | | 3 |
| 123 | Influence of air exposure time on bonding strength in Au-Au surface activated wafer bonding. , 2015, , . | | 3 |
| 124 | Hydrogen radical treatment for surface oxide removal from copper. , 2017, , . | | 3 |
| 125 | Surface activated bonding of Au/Ta layers after degas annealing for MEMS packaging. , 2018, , . | | 3 |
| 126 | Optical evaluation of nanocomposite metamaterials fabricated by nano-printing technique utilizing silver nanoink. Microelectronic Engineering, 2019, 211, 44-49. | 2.4 | 3 |

| # | Article | IF | CITATIONS |
|-----|---|-----|-----------|
| 127 | A Review of Low-temperature Sealing Technologies using Metal Thin Films and Solders for Sensors and MEMS. IEEJ Transactions on Sensors and Micromachines, 2016, 136, 266-273. | 0.1 | 3 |
| 128 | Growth Behavior of Au Films on SiO2Film and Direct Transfer for Smoothing Au Surfaces. International Journal of Automation Technology, 2019, 13, 254-260. | 1.0 | 3 |
| 129 | Gas Absorption in Package Using Au/Pt/Ti Bonding Layer. ECS Transactions, 2020, 98, 211-215. | 0.5 | 3 |
| 130 | Bonding formation and gas absorption using Au/Pt/Ti layers for vacuum packaging. Microsystems and Nanoengineering, 2022, 8, 2. | 7.0 | 3 |
| 131 | Room temperature bonding of GaN and diamond substrates via atomic layer. Scripta Materialia, 2022, 215, 114725. | 5.2 | 3 |
| 132 | Fabrication of microstructure using fluorinated polyimide and silicone-based positive photoresist. Microsystem Technologies, 2000, 6, 165-168. | 2.0 | 2 |
| 133 | Sequential Activation Process of oxygen RIE and nitrogen Radical for LiTaO3 and Si Wafer Bonding. ECS Transactions, 2006, 3, 91-98. | 0.5 | 2 |
| 134 | Development and Use of a Micro Optical Blood Flow Sensor Based on Systemin Package (SIP) Technology that Fuses Optical MEMS and Integrated Circuit to Detect Avian Influenza. , 2007, , . | | 2 |
| 135 | Low Temperature Bonding for Optical Microsystems Applications. ECS Transactions, 2008, 16, 93-103. | 0.5 | 2 |
| 136 | Wafer-bonded Ge:Ga blocked-impurity-band far-infrared detectors. , 2010, , . | | 2 |
| 137 | Influence of Alcohol Consumption on Blood Flow as Detected Using a Micro Integrated Laser Doppler Blood Flowmeter. , 2010, , . | | 2 |
| 138 | Three-Dimensional Integration of Fully Depleted Silicon-on-Insulator Transistor Substrates for CMOS Image Sensors Using Au/SiO2 Hybrid Bonding and XeF2 Etching. ECS Transactions, 2014, 64, 391-396. | 0.5 | 2 |
| 139 | Contact pressure measurement device with a laser micro-displacement sensor. , 2015, , . | | 2 |
| 140 | Hydrogen radical treatment of printed indium solder paste for bump formation. , 2017, , . | | 2 |
| 141 | Wafer-scale Au-Au surface activated bonding using atmospheric-pressure plasma. , 2019, , . | | 2 |
| 142 | Triple-Stacked Au/SiO ₂ Hybrid Bonding With 6-\$mu\$ m-Pitch Au Electrodes on Silicon-on-Insulator Substrates Using O ₂ Plasma Surface Activation for 3-D Integration. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2019, 9, 1904-1911. | 2.5 | 2 |
| 143 | Formation of smooth Au surfaces produced by multiple thin-film transfer process based on template stripping for low-temperature bonding. , 2020, , . | | 2 |
| 144 | Title is missing!. Journal of Japan Institute of Electronics Packaging, 2008, 11, 456-460. | 0.1 | 2 |

| # | Article | IF | CITATIONS |
|-----|---|-----|-----------|
| 145 | Simultaneous Measurement of a Blood Flow and a Contact Pressure. , 2018, , . | | 2 |
| 146 | Persistent spectral hole burning in metal-free tetraphenylporphyrindoped polymethylmethacrylate core fiber. Journal of Luminescence, 1993, 56, 125-133. | 3.1 | 1 |
| 147 | Low-temperature direct flip-chip bonding for integrated micro-systems. , 2005, , . | | 1 |
| 148 | Feasibility of SAB using Nano-adhesion Layer for Low Temperature GaN Wafer Bonding. , 2007, , . | | 1 |
| 149 | Three-dimensional integration of optical multi-chips using surface-activated bonding for high-density microsystems packaging. , 2008, , . | | 1 |
| 150 | Vibrating sensing system based on optical excitation and detection using optical fiber. , 2008, , . | | 1 |
| 151 | Integrated micro laser Doppler velocimeter with 3-D structure. , 2010, , . | | 1 |
| 152 | Low-temperature sealing for optical microsystem packages using Au-Au surface activated bonding in atmospheric pressure environment. , 2011, , . | | 1 |
| 153 | Low-temperature bonding of optical chips using coined Au stud bumps and its application to micro laser Doppler velocimeter. , 2012, , . | | 1 |
| 154 | Solid-state bonding using metallic cone layer for interconnection. , 2012, , . | | 1 |
| 155 | Low-temperature gold-gold bonding using argon and hydrogen gas mixture atmospheric-pressure plasma treatment for optical microsystems. , 2014, , . | | 1 |
| 156 | (Invited) Development of Novel Three-Dimensional Structuring of Integrated Circuits by Using Low Temperature Direct Bonding for CMOS Image Sensors. ECS Transactions, 2014, 61, 87-90. | 0.5 | 1 |
| 157 | Two axial shearing force measurement device with a micro displacement sensor. , 2014, , . | | 1 |
| 158 | Two axial shearing force measurement device with a built-in integrated micro displacement sensor. , 2014, , . | | 1 |
| 159 | Three-dimensional integration technology of separate SOI layers for photodetectors and signal processors of CMOS image sensors. , 2016, , . | | 1 |
| 160 | Room-Temperature Wafer Bonding Using Al/Ti/Au Layers for Integrated Reflectors in the Ultraviolet Spectral Region. , 2016, , . | | 1 |
| 161 | Evaluation of local relative slip in a narrow space in hydrogen gas using MEMS optical encoder. , 2016, | | 1 |
| 162 | Room-temperature wafer bonding using smooth gold thin films for wafer-level MEMS packaging. , 2016, , . | | 1 |

| # | Article | IF | CITATIONS |
|-----|--|-----|-----------|
| 163 | Three-Layered Stacking Process by Au/SiO2Hybrid Bonding for 3D Structured Image Sensors. ECS Transactions, 2017, 80, 227-231. | 0.5 | 1 |
| 164 | Ar+H <inf>2</inf> atmospheric-pressure plasma treatment for Au-Au bonding and influence of air exposure on surface contamination. , 2017, , . | | 1 |
| 165 | 3-Layered Au/SiO <inf>2</inf> hybrid bonding with 6-μm-pitch au electrodes for 3D structured image sensors. , 2017, , . | | 1 |
| 166 | Room-temperature pressureless wafer sealing using ultrathin Au films activated by Ar plasma. , 2019, , . | | 1 |
| 167 | Room-temperature bonding of organic films using ultrathin Au intermediate layers for organic integrated optical devices. , 2019, , . | | 1 |
| 168 | Triple-Layering Technology for Pixel-Parallel CMOS Image Sensors Developed by Hybrid Bonding of SOI Wafers. , 2019, , . | | 1 |
| 169 | Special Section on Microoptomechatronics. IEICE Transactions on Electronics, 2007, E90-C, 1-2. | 0.6 | 1 |
| 170 | Fabrication and Optical Rotation Characteristics of Anisotropically Shaped Micro-objects Made of Fluorinated Polyimide Journal of the Japan Society for Precision Engineering, 1995, 61, 1021-1025. | 0.1 | 1 |
| 171 | Triple-Stacked Silicon-on-Insulator Integrated Circuits Using Au/SiO ₂ Hybrid Bonding. , 2019, , . | | 1 |
| 172 | Surface smoothing of Au plated films by template stripping towards low-temperature bonding for 3D integration. , 2021, , . | | 1 |
| 173 | Laser-based Microsensors. Sensors Update, 1999, 6, 283-300. | 0.5 | Ο |
| 174 | Silicon (110) grid for ion beam processing systems. Journal of Micromechanics and Microengineering, 2001, 11, 561-566. | 2.6 | 0 |
| 175 | Hybrid integrated optical sensor for noninvasive blood flow monitoring. , 0, , . | | 0 |
| 176 | Horizontal observation of laser-trapped dielectric particles. , 0, , . | | 0 |
| 177 | Hybrid integration technologies for optical micro-systems. , 2004, 5604, 67. | | 0 |
| 178 | Surface Activated Flip-Chip Bonding of Laser Chips. , 2005, , 793. | | 0 |
| 179 | Low temperature bonding of LiNbO 3 waveguide chips to Si substrates in air. , 2005, 6050, 288. | | 0 |
| 180 | Low temperature direct bonding of flip-chip mounting VCSEL to Si substrate. , 2006, , . | | 0 |

| # | Article | IF | CITATIONS |
|-----|---|-----|-----------|
| 181 | Silicon Wafer Bonding by Modified Surface Activated Bonding Methods. , 2007, , . | | Ο |
| 182 | Integration and Packaging Technologies for Small Biomedical Sensors. Journal of the Japan Society for Precision Engineering, 2007, 73, 1190-1194. | 0.1 | 0 |
| 183 | Heterogeneous integration towards an ultra-compact and thin optical displacement microsensor. , 2009, , . | | Ο |
| 184 | Low-temperature bonding of photodiodes on glass substrate using Au stud bumps and its application to microsensors with three-dimensional structure. , 2009, , . | | 0 |
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