

Hiroshi Fukuda

List of Publications by Year in descending order

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74
papers

945
citations

623734

14
h-index

552781

26
g-index

76
all docs

76
docs citations

76
times ranked

689
citing authors

#	ARTICLE	IF	CITATIONS
1	Regional cerebral blood flow changes in human brain related to ipsilateral and contralateral complex hand movements - a PET study. <i>European Journal of Neuroscience</i> , 1998, 10, 2254-2260.	2.6	130
2	Imaging Characteristics of Multi-Phase-Shifting and Halftone Phase-Shifting Masks. <i>Japanese Journal of Applied Physics</i> , 1991, 30, 2991-2997.	1.5	80
3	Socioeconomic status and type 2 diabetes complications among young adult patients in Japan. <i>PLoS ONE</i> , 2017, 12, e0176087.	2.5	48
4	Characterization of line-edge roughness in resist patterns and estimations of its effect on device performance. , 2003, 5038, 689.		45
5	Spectral analysis of line-edge roughness in polyphenol EB-resists and its impact on transistor performance. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2005, 23, 2711.	1.6	43
6	Analysis of Line Edge Roughness Using Probability Process Model for Chemically Amplified Resists. <i>Japanese Journal of Applied Physics</i> , 2003, 42, 3748-3754.	1.5	39
7	Depth Profile and Line-Edge Roughness of Low-Molecular-Weight Amorphous Electron Beam Resists. <i>Japanese Journal of Applied Physics</i> , 2005, 44, 5484-5488.	1.5	36
8	Metrology of LER: influence of line-edge roughness (LER) on transistor performance. , 2004, , .		32
9	A New Pupil Filter for Annular Illumination in Optical Lithography. <i>Japanese Journal of Applied Physics</i> , 1992, 31, 4126-4130.	1.5	30
10	Kinetic Model and Simulation for Chemical Amplification Resists. <i>Journal of the Electrochemical Society</i> , 1990, 137, 675-679.	2.9	26
11	Impact of Long-Period Line-Edge Roughness (LER) on Accuracy in Critical Dimension (CD) Measurement and New Guideline for CD Metrology. <i>Japanese Journal of Applied Physics</i> , 2005, 44, 5575-5580.	1.5	26
12	Fabrication of silicon nanopillars containing polycrystalline silicon/insulator multilayer structures. <i>Applied Physics Letters</i> , 1997, 70, 333-335.	3.3	23
13	Impact of acid/quencher behavior on lithography performance. , 2001, 4346, 319.		23
14	Analysis of Line-edge Roughness in Resist Patterns and Its Transferability as Origins of Device Performance Degradation and Variation. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2003, 16, 387-393.	0.3	22
15	Long working hours and skipping breakfast concomitant with late evening meals are associated with suboptimal glycemic control among young male Japanese patients with type 2 diabetes. <i>Journal of Diabetes Investigation</i> , 2019, 10, 73-83.	2.4	22
16	Effects of an mHealth App (Kencom) With Integrated Functions for Healthy Lifestyles on Physical Activity Levels and Cardiovascular Risk Biomarkers: Observational Study of 12,602 Users. <i>Journal of Medical Internet Research</i> , 2021, 23, e21622.	4.3	21
17	Depth profile and line-edge roughness of partially O-1-ethoxyethylated low molecular weight amorphous polyphenol and poly(p-hydroxystyrene) base resists for electron-beam lithography. <i>Polymers for Advanced Technologies</i> , 2006, 17, 116-121.	3.2	19
18	Response of Normal Tissues to Boron Neutron Capture Therapy (BNCT) with ¹⁰ B-Borocaptate Sodium (BSH) and ¹⁰ B-Paraboronophenylalanine (BPA). <i>Cells</i> , 2021, 10, 2883.	4.1	18

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19	Phase Retrieval from Defocused Images and Its Applications in Lithography. Japanese Journal of Applied Physics, 1997, 36, 7494-7498.	1.5	17
20	Association between abdominal fat distribution and atherosclerotic changes in the carotid artery. Obesity Research and Clinical Practice, 2014, 8, e448-e458.	1.8	15
21	Novel Process for Direct Delineation of Spin on Glass (SOG). Japanese Journal of Applied Physics, 1990, 29, 2653-2656.	1.5	14
22	Evaluation of Pupil-Filtering in High-Numerical Aperture I-Line Lens. Japanese Journal of Applied Physics, 1993, 32, 5845-5849.	1.5	13
23	Negative-Tone Polyphenol Resist using Intramolecular-Esterification Reaction for sub-50 nm Lithography. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2006, 19, 373-378.	0.3	12
24	LER evaluation of molecular resist for EUV lithography. Microelectronic Engineering, 2007, 84, 1084-1087.	2.4	12
25	Impact of long-period line-edge roughness (LER) on accuracy in CD measurement. , 2005, , .		11
26	Molecular Resists Based on Cholates Derivatives for Electron-Beam Lithography. Japanese Journal of Applied Physics, 2006, 45, 5435-5439.	1.5	11
27	A Novel Method For Improving The Defocus Tolerance In Step And Repeat Photolithography. Proceedings of SPIE, 1987, , .	0.8	10
28	Sympathetic efferent pathways projecting to the prostate in the dog. Prostate, 2000, 44, 225-232.	2.3	10
29	Distribution control of protecting groups and its effect on LER for EUV molecular resist. , 2007, , .		10
30	Axial Image Superposing (Super-FLEX) Effect Using the Mask Modulation Method for Optical Lithography. Japanese Journal of Applied Physics, 1991, 30, 3037-3042.	1.5	9
31	Recording Density Limitation Explored by Head/Media Co-Optimization Using Genetic Algorithm and GPU-Accelerated LLG. IEEE Transactions on Magnetics, 2012, 48, 3895-3898.	2.1	9
32	Localized and cascading secondary electron generation as causes of stochastic defects in extreme ultraviolet projection lithography. Journal of Micro/ Nanolithography, MEMS, and MOEMS, 2019, 18, 1.	0.9	9
33	Molecular resists based on cholates derivatives for electron-beam lithography. , 2006, 6153, 762.		8
34	Relationship between Lifestyle and Change of Cardiovascular Risk Factors Based on a Five-year Follow-up of Employees in Japan. Industrial Health, 2007, 45, 56-61.	1.0	8
35	Ring-shaped discharge structures in a closed cycle MHD disk generator. Journal of Propulsion and Power, 1987, 3, 249-254.	2.2	7
36	Development of electron beam resists based on amorphous polyphenols with low molecular weight and narrow dispersion. , 2005, , .		7

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37	Determination of high-order lens aberration using phase/amplitude linear algebra. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1999, 17, 3318.	1.6	6
38	Synthesis, Monolayer Formation, and Control of Electrical Characteristics of 3-nm-Diameter Gold Nanoparticles. Japanese Journal of Applied Physics, 2005, 44, 5667-5669.	1.5	6
39	Efficacy and safety of semaglutide in glycemic control, body weight management, lipid profiles and other biomarkers among obese type 2 diabetes patients initiated or switched to semaglutide from other GLP-1 receptor agonists. Journal of Diabetes and Metabolic Disorders, 2021, 20, 2121-2128.	1.9	6
40	Cascade and cluster of correlated reactions as causes of stochastic defects in extreme ultraviolet lithography. Journal of Micro/ Nanolithography, MEMS, and MOEMS, 2020, 19, 1.	0.9	6
41	Accuracy of simulation based on the acid-quencher mutual diffusion model in KrF processes. , 2002, , .		5
42	Measurement of pattern roughness and local size variation using CD-SEM. Journal of Micro/ Nanolithography, MEMS, and MOEMS, 2018, 17, 1.	0.9	5
43	Estimating extremely low probability of stochastic defect in extreme ultraviolet lithography from critical dimension distribution measurement. Journal of Micro/ Nanolithography, MEMS, and MOEMS, 2019, 18, 1.	0.9	4
44	Performance Limitation of Microwave Assisted Magnetic Recording Combined With Exchange Coupled Composite Media Explored by Genetic Algorithm. IEEE Transactions on Magnetics, 2013, 49, 3640-3643.	2.1	3
45	Giant current density via indirect exciton orbit overlapping in polarized nanogranular materials. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2015, 33, 02B108.	1.2	3
46	The Relationships between Metabolic Disorders (Hypertension, Dyslipidemia, and Impaired Glucose) in Middle-Aged Japanese Men. PLoS ONE, 2016, 11, e0149689.	2.5	3
47	Impact of asymmetrically localized and cascading secondary electron generation on stochastic defects in EUV lithography. , 2019, , .		3
48	Printing Isolated Features with $k_1=0.2$ Using Multiple-Pupil Exposure. Japanese Journal of Applied Physics, 1996, 35, 6400-6403.	1.5	2
49	Quasi-physical model for fast resist contour simulation: importance of lens aberrations and acid diffusion in LSI pattern design. , 1998, , .		2
50	Trajectories of kidney function and associated factors among community-dwelling older Japanese: a 16-year longitudinal study. Clinical and Experimental Nephrology, 2020, 24, 330-338.	1.6	2
51	Stochastic defect generation in EUV lithography analyzed by spatially correlated probability model, reaction-limited and scattering-limited?. , 2019, , .		2
52	Direct Patterning of Spin-on-Glass Materials by ArF Excimer Laser Irradiation and Their New Application to Hard-mask Processes. Japanese Journal of Applied Physics, 1996, 35, 6366-6369.	1.5	1
53	LER as structural fluctuation of resist reaction and developer percolation. , 2002, , .		1
54	Line Edge Roughness and Development Rate Analysis Based on Random Reaction/Percolation Model for Chemically Amplified Resists.. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2002, 15, 389-394.	0.3	1

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55	Proximity-effect correction for EPL by using multiple pattern-area-density maps and pattern classification. , 2003, 5130, 888.		1
56	Proximity-effect correction software for EPL using the pattern classify method. , 2004, 5446, 897.		1
57	Association between Visceral or Subcutaneous Fat Accumulation and B-Type Natriuretic Peptide among Japanese Subjects: A Cross-Sectional Study. Journal of Clinical Medicine, 2021, 10, 1315.	2.4	1
58	Reliability of Surface MEMS Structures Fabricated Using Standard CMOS Back-End-Of-Line Processes. IEEJ Transactions on Sensors and Micromachines, 2007, 127, 144-147.	0.1	1
59	A case of metastatic gallbladder adenocarcinoma of the mandible.. Nihon Koku Geka Gakkai Zasshi, 1995, 41, 154-156.	0.0	1
60	A case of white sponge nevus in the oral cavity.. Nihon Koku Geka Gakkai Zasshi, 1996, 42, 308-310.	0.0	1
61	Relief Effect of Carbon Dioxide Insufflation in Transnasal Endoscopy for Health Checks”A Prospective, Double-Blind, Case-Control Trial. Journal of Clinical Medicine, 2022, 11, 1231.	2.4	1
62	New optics design methodology using diffraction grating on spherical mirrors for soft x-ray projection lithography. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1995, 13, 366.	1.6	0
63	CD control in phase-edge lithography: the effects of lens aberration and pattern layout. , 2002, 4691, 1021.		0
64	Root-cause decomposition of line edge roughness and its application to cross-section profile prediction using top-view SEM images. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2013, 31, 06F802.	1.2	0
65	Giant current density via indirect exciton orbit overlapping in polarized nano-granular materials. , 2014, , .		0
66	1425”...Health literacy in japanese workplace: association with lifestyle and ncd”™s. , 2018, , .		0
67	1046”...Analysis and a prediction model of pattern of visits to medical institutions among working individuals with lifestyle-related diseases in japan. , 2018, , .		0
68	1444”...Health literacy in japanese workplace (2nd report): impact of workplace health promotion, lessons learned from the practice. , 2018, , .		0
69	Investigating the significance of three simple questions for identification of sleep problems. Health Evaluation and Promotion, 2019, 46, 419-423.	0.0	0
70	A case of secondary syphilis developing as tumor-like granuloma in the oral cavity. Nihon Koku Geka Gakkai Zasshi, 1978, 24, 1182-1185.	0.0	0
71	Three cases of tuberculous lymphadenitis in the submandibular and submental regions. Nihon Koku Geka Gakkai Zasshi, 1978, 24, 614-618.	0.0	0
72	EVALUATION OF INTRAOPERATIVE FROZEN SECTION IN THE DIAGNOSIS OF SURGICAL THYROID DISEASES. The Journal of the Japanese Practical Surgeon Society, 1984, 45, 1545-1550.	0.0	0

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73	Prospects for Optical-, EB-, and X-Ray Lithography for Giga-Bit Memory: Advantages and Disadvantages. , 1997, , .		0
74	Anomaly detection in random circuit patterns using autoencoder. Journal of Micro-nanopatterning, Materials, and Metrology, 2021, 20, .	0.8	0