

## 他誌への発表論文一覧 (2017-2018.06)

題 名	著者名	誌(書)名	巻号・頁・発行年
Via-First Process to Enable Copper Metallization of Glass Interposers with High-Aspect-Ratio, Fine-Pitch through-Package-Vias	T. Huang, B. Chou, J. Tong, T. Ogawa, V. Sundaram, R. Tummala	IEEE TRANSACTIONS ON COMPONENTS PACKAGING AND MANUFACTURING TECHNOLOGY	Vol. 7(4), Page 544-551, (2017)
Effects of fictive temperature on the leaching of soda lime silica glass surfaces	S. Amma, J. Luo, S. Kim, C. Pantano	Journal of the American Ceramic Society	Vol. 100(4), Page 1424-1431, (2017)
Microfabric vessel-based system for efficient 3D culture and rapid differentiation of pluripotent stem cells for regenerative medicine	H. Sato, A. Idiris, T. Miwa, H. Kumagai	Stem Cell & Translational Investigation 2017	Vol. 4 e1541, Page 1-9, (2017)
Nano-imprinting of surface relief gratings on soda-aluminosilicate and soda-lime silicate glasses	N. Kubo, N. Ikutame, M. Takei, B. Weibai, S. Ikeda, K. Yamamoto, K. Uraji, T. Misawa, M. Fujioka, H. Kaiju, G. Zhao, J. Nishii	Optical Materials Express	Vol. 7(5), Page 1438-1445, (2017)
Theoretical study of disproportionation reaction of fluorinated ethylenes	H. Fukaya, Y. Hayakawa, H. Okamoto, K. Ueno, T. Otsuka	Journal of Fluorine Chemistry	Vol. 200, Page 133-141, (2017)
Use of Birefringence to Determine Redistribution Layer Stresses to Create Design Guidelines to Prevent Glass Cracking	S. McCann, Y. Sato, T. Ogawa, R. Tummala, S. Sitaraman	IEEE TRANSACTIONS ON DEVICE AND MATERIALS RELIABILITY	Vol. 17(3), Page 585-592, (2017)
Molecular Dynamics Study on the Mechanical Deformation of Hydrated Perfluorosulfonic Acid Polymer Membranes	A. Kuo, A. Tanaka, J. Irisawa, W. Shinoda, S. Okazaki	Journal of Physical Chemistry C	Vol. 121(39), Page 21374-21382, (2017)
Production of 3-hydroxypropionic acid via the malonyl-CoA pathway using recombinant fission yeast strains	A. Suyama, Y. Higuchi, M. Urushihara, Y. Maeda, K. Takegawa	Journal of bioscience and bioengineering	Vol. 124, Issue 4, Page 392-399, (2017)
Analysis of Oxygen Transport Resistance Components and Water Transport Phenomena with Hydrophilic and Hydrophobic MPL in PEFC	R. Nozaki, Y. Tabe, T. Chikahisa, T. Tanuma	POLYMER ELECTROLYTE FUEL CELLS 17 (PEFC 17)	Vol. 80(8), Page 335-344, (2017)
Nucleation and growth of hexagonal $\text{CaAl}_2\text{Si}_2\text{O}_8$ crystals in $\text{CaO-Al}_2\text{O}_3\text{-SiO}_2$ glass.	K. Maeda, A. Yasumori	Materials Letters	Vol. 206, Page 241-244, (2017)
A study on the plasticity of soda-lime silica glass via molecular dynamics simulations	S. Urata, Y. Sato	The Journal of chemical physics	Vol. 147, Issue 17, Page 174501, (2017)
Non-destructive stress measurement in double ion-exchanged glass using optical guided-waves and scattered light.	S. Inaba, S. Ogami, S. Orihara, Y. Orihara	Journal of the Ceramic Society of Japan	Vol. 125, Issue. 11, Page 814-820, (2017)
Organic light-emitting diode lighting with high out-coupling and reliability: Application of transparent amorphous $\text{ZnO-SiO}_2$ semiconductor thick film	N. Nakamura, J. Kim, K. Yamamoto, S. Watanabe, H. Hosono	ORGANIC ELECTRONICS	Vol. 51, Page 103-110, (2017)
Analysis of isproportionation process of trifluoroethylene using high power spark ignitions over 5 J	T. Otsuka, K. Ueno, H. Okamoto, M. Ippommatsu, R. Dobashi	Journal of Loss Prevention in the Process Industries	Vol. 51, Page 36-41, (2018)
Molecular dynamics study on nano-particles reinforced oxide glass.	S. Urata, R. Ando, M. Ono, Y. Hayashi	Journal of the American Ceramic Society	Vol. 101, Issue. 6, Page 2266-2276, (2018)
Assessing the performance of the Tran-Blaha modified Becke-Johnson exchange potential for optical constants of semiconductors in the ultraviolet-visible light region.	K. Nakano, T. Sakai	Journal of Applied Physics (Melville, NY, United States)	Vol. 123, Issue. 1, Page 015104/1-015104/9, (2018)
Towards co-packaging of photonics and microelectronics in existing manufacturing facilities	A. Janta-Polczynski, E. Cyr, J. Bougie, A. Drouin, R. Langlois, D. Childers, S. Takenobu, Y. Taira, T. Lichoulas, S. Kamlapurkar	OPTICAL INTERCONNECTS XVIII	Vol. 10538, JAN 29-31, (2018)

題 名	著者名	誌(書)名	巻号・頁・発行年
Design and Performance Evaluation of a Multilayer Fixed-Bed Binder-Free Desiccant Dehumidifier for Hybrid Air-Conditioning Systems: Part II - Theoretical Analysis	W. Hsu, S. Paul, J. Shamim, K. Kitaoka, H. Daiguji	International Journal of Heat and Mass Transfer	Vol. 116, Page 1370-1378, (2018)
Design and Performance Evaluation of a Multilayer Fixed-Bed Binder-Free Desiccant Dehumidifier for Hybrid Air-Conditioning Systems: Part I - Experimental	J. Shamim, W. Hsu, K. Kitaoka, S. Paul, H. Daiguji	International Journal of Heat and Mass Transfer	Vol. 116, Page 1361-1369, (2018)
Mechanisms of Damage Formation in Glass in the Process of Femtosecond Laser Drilling	Y. Ito, R. Shinomoto, K. Nagato, A. Otsu, K. Tatsukoshi, Y. Fukasawa, T. Kizaki, N. Sugita, M. Mitsuishi	Applied Physics A	Vol. 124, Page 181, (2018)
Lateral deformation and defect resistance of compacted silica glass: Quantification of the scratching hardness of brittle glasses	S. Sawamura, R. Limbach, H. Behrens, L. Wondraczek	Journal of Non-Crystalline Solids	Vol. 481, Page 503-511, (2018)
Preparation of High-Density Polymer Brushes with a Multihelical Structure	T. Kato, M. Sato, H. Shimamoto, K. Uno, K. Yokomachi, Y. Konishi, K. Kamitani, M. Nishibori, N. Ohta, R. Ishige, K. White, N. Otozawa, T. Hirai, A. Takahara	Langmuir : the ACS journal of surfaces and colloids	Vol. 34, Issue 10, Page 3283-3288, (2018)
Effect of glass composition on the hardness of surface layers on aluminosilicate glasses formed through reaction with strong acid	S. Amma, J. Luo, S. Kim, C. Pantano	Journal of the American Ceramic Society	Vol. 101(2), Page 657-665, (2018)
Significant suppression of Rayleigh scattering loss in silica glass formed by the compression of its melted phase	M. Ono, S. Aoyama, M. Fujinami, S. Ito	Optics express	Vol. 26(7), Page 7942-7948, (2018)
Material Design of Transparent Oxide Semiconductors for Organic Electronics: Why Do Zinc Silicate Thin Films Have Exceptional Properties?	N. Nakamura, J. Kim, H. Hosono	Advanced Electronic Materials	Vol. 4(1700352), Page 1-9, (2018)
Synthesis of Organofluorine Compounds with Raw Materials in Fluoro Chemical Industry	Y. Morizawa	Journal of Synthetic Organic Chemistry, Japan	Vol. 76(4), Page 364-369, (2018)
Partition Function and Configurational Entropy in Non-Equilibrium States: A New Theoretical Model	A. Takada, R. Conradt, P. Richet	Entropy	Vol. 20(4), Page 218, (2018)
Low-autofluorescence fluoropolymer membrane filters for cell filtration	N. Kihara, D. Kuboyama, D. Onoshima, K. Ishikawa, H. Tanaka, N. Ozawa, T. Hase, R. Koguchi, H. Yukawa, H. Odaka, Y. Hasegawa, Y. Baba, M. Hori	Japanese Journal of Applied Physics	Vol. 57, Page 06JF03 1-6, (2018)
Study on the Main-Chain Structure of Amorphous Fluorine Resins for Encapsulating AlGaIn-Based DUV-LEDs	K. Yamada, Y. Nagasawa, S. Nagai, A. Hirano, M. Ippommatsu, K. Aosaki, Y. Honda, H. Amano, I. Akasaki	physica status solidi (a)	Vol. 215(10), Page 1700525, (2018)
Molecular dynamics study of tridymite	A. Takada; K. Glaser, R. Bellc, R. Catlow	IUCrJ	Vol. 5, Issue Pt3, Page 325-334, (2018)
Exploring the effect of pendent side chain length on the structural and mechanical properties of hydrated perfluorosulfonic acid polymer membranes by molecular dynamics simulation.	A. Kuo, K. Takeuchi, A. Tanaka, S. Urata, S. Okazaki, W. Shinoda	Polymer	Vol. 146, Page 53-62, (2018)
A multiscale shear-transformation-zone (STZ) model and simulation of plasticity in amorphous solids.	S. Urata, S. Li	Acta Materialia	Vol. 155, Page 153-165, (2018)

題名	著者名	誌(書)名	巻号・頁・発行年
Identification of nanometer-scale compositional fluctuations in silicate glass using electron microscopy and spectroscopy	K. Nakazawa, T. Miyata, S. Amma, T. Mizoguchi	Scripta Materialia	Vol. 154, Page 197-201, (2018)
Thermal diffusivity of soda-lime-silica powder batch and briquettes	Y. Doi, T. Maehara, T. Yano	Glass Technology - European Journal of Glass Science and Technology Part A,	Vol. 59(3), Page 92-104, (2018)
Analysis of Water Transport inside Hydrophilic Carbon Fiber Micro-Porous Layers with High-Performance Operation in PEFC	Y. Aoyama, Y. Tabe, R. Nozaki, K. Suzuki, T. Chikahisa, T. Tanuma,	Journal of the Electrochemical Society	Vol. 165(7), Page F484-F491, (2018)
Lateral hardness and the scratch resistance of glasses in the Na <sub>2</sub> O-CaO-SiO <sub>2</sub> system	G. Macedo, S. Sawamura, L. Wondraczek	Journal of Non-Crystalline Solids	Vol. 492, Page 94-101, (2018)
Automated, High-Throughput Photonic Packaging	T. Barwicz, T. Lichoulas, Y. Taira, Y. Martin, S. Takenobu, A. Janta-Polczynski, H. Numata, E. Kimbrell, J. Nah, D. Peng, R. Leidy, M. Khater, S. Kamlapurkar, E. Cyr, S. Engelmann, P. Fortier, N. Boyer	Optical Fiber Technology	Vol. 44, Page 24-35, (2018)
2017年塗料・塗装技術の展望 フッ素樹脂開発の展望と課題	齋藤俊, 尾知修平, 江畑志郎, 高柳敬志 (旭硝子 化学品カンパニー)	塗装技術	Vol. 56 No. 1, Page 93-102, (2017)
微細加工培養容器を利用した高効率なiPS細胞スフェロイド形成および分化促進	三輪達明, ALIMJAN Idiris, 熊谷博道 (AGC旭硝子 先端技研)	再生医療	Vol. 16 増刊号, Page 281, (2017)
アトッチ(太陽光発電仕様)	AGC旭硝子	クリーンエネルギー	Vol. 26 No. 2, Page 24-25, (2017)
ジビニルモノマー変成エチレン-テトラフルオロエチレンのレオロジー挙動	西榮一, 佐藤崇 (旭硝子 化学品カンパニー 技術統括本部), 今井悟, SUKUMARAN Sathish K., 杉本昌隆, 小山清人(山形大 大学院 有機材料システム研究科)	成形加工	Vol. 29 No. 3, Page 97-101, (2017)
ノンテクニカルスキルの向上で事故防止	南川忠男 (旭硝子 千葉工場)	労働安全衛生研究	Vol. 10 No. 1, Page 3-12, (2017)
工場の化学物質設備の環境・保安防災対策 工場におけるEMSを活用した化学物質系設備の環境・保安防災対策	長谷部浩士 (旭硝子 京浜工場)	月刊化学物質管理	Vol. 1 No. 10, Page 32-40, (2017)
SID Display Week 2017報告—3D,HMD,Automotive HUD—	上原伸一 (旭硝子)	映像情報メディア学会技術報告	Vol. 41 No. 20(3DIT2017 18-21, IDY2017 24-27), Page 19-21, (2017)
優れた高温伸縮性を有するゴム状ガラスの開発	稲葉誠二 (旭硝子)	東京工業大学科学技術創成研究院フロンティア材料研究所共同利用研究報告書	Vol. 2016, Page 161, (37) (2017)
99%UVカット可能な自動車窓用プライバシーガラス組成の開発	赤田修一, 大和貴充, 宮本二郎, 中尾泰昌 (旭硝子)	セラミックス	Vol. 52 No. 7, Page 506-507, (2017)
日本発プラスチックの開発ストーリー 第12回 パーフルオロ(全フッ素化) アモルファス透明樹脂「CYTOP(サイトップ)」	青崎耕 (旭硝子)	プラスチック	Vol. 68 No. 8, Page 66-70, (2017)
省エネに貢献する熱マネジメント技術 車室内空調における熱マネジメント 公開情報に基づくEV電費・HEV燃費簡易予測手法の提案	尾関義一, 追分美代子 (旭硝子 先端技研), 小畑壮吾, 永野秀明, 郡逸平 (東京都市大 工)	自動車技術	Vol. 71 No. 10, Page 99-104, (2017)

題 名	著者名	誌(書)名	巻号・頁・発行年
洗浄剤と洗浄技術の動向 環境対応型フッ素系溶剤の開発	三木寿夫 (旭硝子 化学品カンパニー 千葉研)	潤滑経済	No. 630, Page 2-5, (2017)
変成エチレン-テトラフルオロエチレン共重合体(ETFE) のレオロジー挙動及び応用特性評価	西榮一 (旭硝子), 杉本昌隆 (山形大 大学院)	成形加工シンポジア	Vol. 2017, Page 131-132, (2017)
ガラス 結晶化ガラス	前田敬 (旭硝子 先端技研)	Journal of the Society of Inorganic Materials, Japan	Vol. 24 No. 391, Page 351-356, (2017)
「設備中心型ライン」でのIE活用とIEr育成～固有技術が強い「設備中心型ライン」でのIE技術の活用とIErの育成～	篠田正行, 内田耕平 (AGC旭硝子)	IEレビュー	Vol. 58 No. 5, Page 23-28, (2017)
AGC旭硝子における次世代フッ素系イオン交換膜「FLEMION」の開発	山本泰, 角倉康介, 西尾拓久央, 梅村和郎 (旭硝子 化学品カンパニー)	膜	Vol. 43 No. 1, Page 27-30, (2018)
導電膜ガラスアンテナ	加賀谷修 (旭硝子 商品開研)	電子情報通信学会技術研究報告	Vol. 117 No. 436 (AP2017 176-190), Page 67-71, (2018)
コーティング Part I 5.UVカットコートガラス	小平広和 (旭硝子 オートモーティブカンパニー)	接着の技術	Vol. 37 No. 4, Page 24-29, (2018)
Low - Eガラスの歴史・仕組み・性能・効果	吹春高男 (旭硝子 ビルディング・産業ガラスカンパニー)	建築設備	Vol. 69 No. 3, Page 4-14, (2018)
モバイルディスプレイデバイス用高曲げ強度化学強化カバーガラス	藤原祐輔, 鹿島出, 上村直己 (AGC旭硝子)	映像情報メディア学会技術報告	Vol. 42 No. 8 (IDY2018 15-22), Page 7-10, (2018)
フッ素化学工業原料を利用する含フッ素化合物合成反応	森澤義富 (旭硝子 先端技研)	有機合成化学協会誌	Vol. 76 No. 4, Page 364-369, (2018)
教えてプラスチック ふっ素樹脂—5:エチレン-テトラフルオロエチレンコポリマー(ETFE)	中西佑介 (旭硝子)	ペトロテック	Vol. 41 No. 5, Page 372-373, (2018)
フッ素樹脂による熱可塑性CFRPの物性向上	細田朋也, 尾澤紀生 (AGC旭硝子 化学品カンパニー)	プラスチックス	Vol. 69 No. 5, Page 49-52, (2018)