

他誌への発表論文一覧 (2019.07-2020.06)

Article Title	Author	Journal title	Publication information				
			Year	month	Vol	Iss	Page
Development of B7:133 New Low-GWP Refrigerants-Refrigerant Mixtures Including HFO-1123	Mai Hashimoto Tetsuo Otsuka Masato Fukushima Hidekazu Okamoto Hiroki Hayamizu Katsuya Ueno Ryo Akasaka	Science and Technology for the Built Environment	2019	7	25	6	776-783
Cyanide-Free One-Pot Synthesis of Methacrylic Esters from Acetone	Minoru Koyama Takafumi Kawakami Takashi Okazoe Kyoko Nozaki	Chemistry - A European Journal	2019	8	25	46	10913-10917
Hydrogen Permeation in Hydrated Perfluorosulfonic Acid Polymer Membranes: Effect of Polymer Crystallinity and Equivalent Weight	Kotono Takeuchi An-Tsung Kuo Takeshi Hirai Tatsuya Miyajima Shingo Urata Shinji Terazono Susumu Okazaki Wataru Shinoda	Journal of Physical Chemistry. C	2019	8	123	33	20628-20638
An Arsenal of Tools Based on Kendrick Mass Defects to Process Congested Electrospray Ionization High-resolution Mass Spectra of Polymers with Multiple Charging	Kei Ishitsuka Toshifumi Kakiuchi Hiroaki Sato Thierry N. J. Fouquet	Rapid Communications in Mass Spectrometry	2019	9	Early view		e8584
3D Microstructure and Crack Pathways of Toughened CaO-Al ₂ O ₃ -SiO ₂ Glass by Precipitation of Hexagonal CaAl ₂ Si ₂ O ₈ Crystal	Kei Maeda Kenichiro Iwasaki Shingo Urata Kosho Akatsuka Atsuo Yasumori	Journal of the American Ceramic Society	2019	9	102	9	5535-5544
Molecular Dynamics Investigation of the Fracture Mechanism of a Glass-ceramic Containing Cleavable Crystals	Shingo Urata Yoichi Takato Kei Maeda	Journal of the American Ceramic Society	2019	9	102	9	5138-5148
Reaction Mechanisms and Interfacial Behaviors of Sodium Silicate Glass in an Aqueous Environment from Reactive Force Field-Based Molecular Dynamics Simulations	Lu Deng Katsuaki Miyatani Shin-ichi Amma Michinori Suehara Madoka Ono Yuichi Yamamoto Shingo Urata Jincheng Du	Journal of Physical Chemistry. C	2019	9	123	35	21538-21547
Microfluidic Mechanotyping of a Single Cell with Two Consecutive Constrictions of Different Sizes and an Electrical Detection System	Mamiko Sano Noritada Kaji Amy C. Rowat Hirotohi Yasaki Long Shao Hidefumi Odaka Takao Yasui Tetsuya Higashiyama Yoshinobu Baba	Analytical Chemistry (Washington)	2019	10	91	20	12890-12899
Large-Scale Molecular Dynamics Simulation of Perfluorosulfonic Acid Membranes: Remapping Coarse-Grained to all-Atomistic Simulations	An-Tsung Kuo Yusuke Miyazaki Changwoon Jang Tatsuya Miyajima Shingo Urata Steven O. Nielsen Susumu Okazaki Wataru Shinoda	Polymer	2019	10	181		121766
Morphological Changes of Hydrophobic Matrix and Hydrophilic Ionomers in Water-Swollen Perfluorinated Sulfonic Acid Membranes Detected using Small-Angle X-Ray Scattering	So Fujinami Taiki Hoshino Tomotaka Nakatani Tatsuya Miyajima Takaaki Hikima Masaki Takata	Polymer	2019	10	180		121699
Effects of Packing Density and Chain Length on the Surface Hydrophobicity of Thin Films Composed of Perfluoroalkyl Acrylate Chains: A Molecular Dynamics Study	Hari O. S. Yadav An-Tsung Kuo Shingo Urata Wataru Shinoda	Langmuir	2019	11	35	44	14316-14323

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Tetrafluoroethylene-Propylene Elastomer for Fabrication of Microfluidic Organs-on-Chips Resistant to Drug Absorption	Emi Sano Chihiro Mori Naoki Matsuoka Yuka Ozaki Keisuke Yagi Aya Wada Koichi Tashima Shinsuke Yamasaki Kana Tanabe Kayo Yano Yu-Suke Torisawa	Micromachines (Basel)	2019	11	10	11	793
Molecular Orientations and Conformations of Air/Fluoroalkyl Acrylate Polymer Interfaces Studied by Heterodyne-Detected Vibrational Sum Frequency Generation	Masanari Okuno Osamu Homma An-Tsung Kuo Shingo Urata Ryohei Koguchi Tatsuya Miyajima Taka-aki Ishibashi	Macromolecules	2019	11	52	22	8705-8712
Real-Time Observation of Crack Propagation and Stress Analysis during Laser Cutting of Glass	Kensho Ogata Keisuke Nagato Yusuke Ito Hiro Nakano Tetsuya Hamaguchi Isao Saito Takuma Fujiwara Takahiro Nagata Yasunori Ito Masayuki Nakao	Journal of Laser Applications	2019	11	31	4	42008
Tetrafluoroethylene-Propylene Elastomer for Fabrication of Microfluidic Organs-on-Chips Resistant to Drug Absorption	Emi Sano Chihiro Mori Naoki Matsuoka Yuka Ozaki Keisuke Yagi Aya Wada Koichi Tashima Shinsuke Yamasaki Kana Tanabe Kayo Yano Yu-suke Torisawa	Micromachines	2019	11	10	11	793
An Efficient Computational Procedure to Obtain a More Stable Glass Structure	Shingo Urata	The Journal of Chemical Physics	2019	12	151	22	224502
Origin of the Mixed Alkali Effect in Silicate Glass	Yohei Onodera Yasuyuki Takimoto Hiroyuki Hijiya Taketoshi Taniguchi Shingo Urata Seiji Inaba Sanae Fujita Ippei Obayashi Yasuaki Hiraoka Shinji Kohara	NPG Asia Materials	2019	12	11	1	1-11
High Temperature Fatigue Properties of Oxide-Dispersion-Strengthened Platinum-10% Rhodium Alloy	Akifumi Niwa Yukihito Akita Kandai Enomoto Rintaro Aoyama Hiroyuki Akebono Atsushi Sugeta	Procedia Structural Integrity	2019	12	19		106-112
Sol-gel Preparation of Yttria-Stabilized Zirconia Thin Films and Transfer to Polycarbonate Substrates	Takehito Yamada Ryota Okuda Hideyuki Hirakoso Hiromitsu Kozuka	Journal of Sol-Gel Science and Technology	2019	12	92	3	554-561
Scratch - induced Yielding and Ductile Fracture in Silicate Glasses Probed by Nanoindentation	Shigeki Sawamura René Limbach Sönke Wilhelmy Akio Koike Lothar Wondraczek	Journal of the American Ceramic Society	2019	12	102	12	7299-7311
A Survival Guide for the “Electro-curious”	Cian Kingston Maximilian D. Palkowitz Yusuke Takahira Julien C. Vantourout Byron K. Peters Yu Kawamata Phil S. Baran	Accounts of Chemical Research	2019	12	53	1	72-83

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Higher Toughness of Metal-nanoparticle-implanted Sodalime Silicate Glass with Increased Ductility	Madoka Ono Satoshi Miyasaka Yoichi Takato Shingo Urata Haruhiko Yoshino Ryota Ando Yasuo Hayashi	Scientific Reports	2019	12	9	1	15387
Structural Origins of the Mixed Alkali Effect in Alkali Aluminosilicate Glasses: Molecular Dynamics Study and its Assessment	Federica Lodesani Maria Cristina Menziani Hiroyuki Hijiya Yoichi Takato Shingo Urata Alfonso Pedone	Scientific Reports	2020	2	10	1	2906
Structural Features of Sodium Silicate Glasses from Reactive Force Field - based Molecular Dynamics Simulations	Lu Deng Shingo Urata Yasuyuki Takimoto Tatsuya Miyajima Seung Ho Hahn Adri C. T. Duin Jincheng Du	Journal of the American Ceramic Society	2020	3	103	3	1600-1614
High-Temperature Bending Fatigue Properties of Oxide Dispersion-Strengthened Platinum-rhodium Alloy Under High Axial Stress	A. Niwa Y. Akita K. Enomoto R. Aoyama H. Akebono A. Sugeta	International Journal of Fatigue	2020	3	132		105385
Ultralow-Loss Substrate-Integrated Waveguides in Glass-Based Substrates for Millimeter-Wave Applications	Atom O. Watanabe Bijan K. Tehrani Tomonori Ogawa Pulugurtha Markondeya Raj Manos M. Tentzeris Rao R. Tummala	IEEE Transactions on Components, Packaging and Manufacturing Technology	2020	3	10	3	531-533
Synthesis of Fluorinated Dialkyl Carbonates from Carbon Dioxide as a Carbonyl Source	Masafumi Sugiyama Midori Akiyama Kohei Nishiyama Takashi Okazoe Kyoko Nozaki	ChemSusChem	2020	4	13	7	1775-1784
Effect of Crystallinity and Microstructure on Mechanical Properties of CaO-Al ₂ O ₃ -SiO ₂ Glass Toughened by Precipitation of Hexagonal CaAl ₂ Si ₂ O ₈ Crystals	Keisuke Inage Kosho Akatsuka Kenichiro Iwasaki Takayuki Nakanishi Kei Maeda Atsuo Yasumori	Journal of Non-Crystalline Solids	2020	4	534		119948
Thermal Expansion of Silicate Glass-forming Systems at High Temperatures from Topological Pruning of Ring Structures	Yongjian Yang Hirofumi Tokunaga Madoka Ono Kazutaka Hayashi John C. Mauro	Journal of the American Ceramic Society	2020	4	103	8	4256-4265
Secretory Production of N-Glycan-Deleted Glycoprotein in <i>Aspergillus Oryzae</i>	Qiushi Li Yujiro Higuchi Kana Tanabe Yoshinori Katakura Kaoru Takegawa	Journal of Bioscience and Bioengineering	2020	5	129	5	573-580
Understanding the Effect of Hydration on the Bio-Inert Properties of 2-Hydroxyethyl Methacrylate Copolymers with Small Amounts of Amino- Or/and Fluorine-Containing Monomers	Ryohei Koguchi Katja Jankova Yuki Hayasaka Daisuke Kobayashi Yosuke Amino Tatsuya Miyajima Shingo Kobayashi Daiki Murakami Kyoko Yamamoto Masaru Tanaka	ACS Biomaterials Science & Engineering	2020	5	6	5	2855-2866
Control of the Near-surface OH Concentration of Float Glass by Anodic Proton Injection	Satoshi Miyasaka Tomohiro Ishiyama Yasuo Hayashi Takahisa Omata	Journal of the American Ceramic Society	2020	6	103	6	3642-3649

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Preparation of Polymethyl Methacrylate with Well - controlled Stereoregularity by Anionic Polymerization in an Ionic Liquid Solvent	Nobuyuki Otozawa Rio Hamajima Masataka Yoshioka Raito Kato Arisa Tanaka Hiroto Fukuma Toshiki Terao Kei Manabe Syuji Fujii Yoshinobu Nakamura Atsushi Takahara Tomoyasu Hirai	Journal of Polymer Science	2020	6	Early view		
Anisotropic Structure of Alkali Metaphosphate Glasses	Seiji Inaba Yasuhiko Benino Shinji Kohara Hideo Hosono Setsuro Ito	Journal of the American Ceramic Society	2020	6	103	6	3631-3641
Ultrafast Internal Modification of Glass by Selective Absorption of a Continuous-Wave Laser into Excited Electrons	Naoyuki Miyamoto Yusuke Ito Chaoran Wei Reina Yoshizaki Akihiro Shibata Ikuo Nagasawa Keisuke Nagato Naohiko Sugita	Optics Letters	2020	6	45	11	3171
空隙構造制御によるシリカガラスの超低損失化	小野 円佳	光学	2019	6	48	6	243
セラミックス標準化最前線 Iec におけるモバイルデバイス用カバーガラス強度評価方法の国際標準化	林 和孝	セラミックス	2019	6	54	6	404-408
Iec におけるモバイルデバイス用カバーガラス強度評価方法の国際標準化	林 和孝	セラミックス誌	2019	6	54	6	404-408
「2018 年 日本の光学研究」のハイライト研究の1つとして	小野 円佳	光学	2019	6	48	6	243
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ガラス中の Fe ²⁺ の構造に関する考察	土屋 博之	NewGlass	2019	7	34	2	14-17
【しなやかなタフポリマーへの取り組み (ImPACT 伊藤プログラム) 第2回】薄くてタフな電解質膜で燃料電池を小型化	立松 伸	プラスチック	2019	8	70	8	54-58
しなやかなタフポリマーへの取り組み - ImPACT 伊藤プログラム第2回 薄くてタフな電解質で燃料電池を小型化	立松 伸	月刊「プラスチック」	2019	8	70	8	54-58
産学連携・共創活動 企業における外部連携の意味とその期待	中尾 泰昌	セラミックス	2019	10	54	10	682-689
第51回ガラス部会夏季若手セミナー「紐解くガラス科学」参加報告	小野 円佳	New Glass	2019	11	34	3	57-60
ニューガラスフォーラム第9回定時総会記念講演会「産総研 材料・化学領域が取り組むイノベーション推進」聴講報告	荒井 雄介	New Glass	2019	11	34	3	67-69
ガラス融体の熱伝導率と実機生産におけるその活用事例	徳永 博文	New Glass	2019	11	34	3	14-18
大型高精細ディスプレイパネル用基板ガラス AN Rezosta (TM) の開発	林 和孝	New Glass	2019	11	34	3	61-65
最大泡圧法による高粘性ガラス融体の密度測定	徳永 博文	金属学会会報まてりあ	2019	11	58	11	667-668
市街地における 28GHz 帯オンガラスアンテナ分散配置構成を用いた受信レベル特性と下り伝送特性	猪又 稔 (NTT ドコモ) 今井 哲朗 (NTT ドコモ) 来山 大祐 (NTT ドコモ) 浅井 孝浩 (NTT ドコモ) 東海林 英明 竹内 彰一 信岡 淳 佐山 稔貴 茂木 健 加賀谷 修	電子情報通信学会技術研究報告	2020	2	119	418	1-6 (Web Only)

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Ar/Mr グラス向け高屈折率ガラスウエハの開発	安間 伸一 長嶋 達雄 北岡 賢治 竹下 暢彦	JETI	2020	2	68	3	89-93
進化する運転支援技術 視界・視認性を向上させる 曇りを抑制しドライバの視界をクリアに保つフロントガラス	入江 哲司 杉原 洋亮 小平 広和 木村 壮志 佐藤 奈々 尾関 義一 追分 美代子	自動車技術	2020	3	74	3	23-28
フロン規制の動向 低 gwp 冷媒の開発 動向 Agc の取り組み	福島 正人	建築設備と配管工事	2020	5	58	6	18-26
高エネルギー電子加速器のマイクロデバイス化：[R-680] ガラスの触り心地制御と評価	留野 暁	表面と真空	2020	5	63	5	259
進化しつづける最新ガラスの科学	前田 敬	科学雑誌「Newton」	2020	5	2020年	7月号	108-