

## 他誌への発表論文一覧 (2020.07-2021.06)

Article Title	Author	Journal title	Publication information				
			Year	month	Vol	Iss	Page
Effects of Side-Chain Spacing and Length on Hydration States of Poly (2-Methoxyethyl Acrylate) Analogues: A Molecular Dynamics Study	An-Tsung Kuo Shingo Urata Ryohei Koguchi Toshiki Sonoda Shingo Kobayashi Masaru Tanaka.	ACS Biomaterials Science & Engineering	2021	6	7	6	2383-2391
Improved Safety of Induced Pluripotent Stem Cell-Derived Antigen-Presenting Cell-Based Cancer Immunotherapy	Hiroaki Mashima Rong Zhang Tsuyoshi Kobayashi Hirotake Tsukamoto Tianyi Liu Tatsuaki Iwama Yuichiro Hagiya Masateru Yamamoto Satoshi Fukushima Seiji Okada Alimjan Idiris Shin Kaneko Tetsuya Nakatsura Hideki Ohdan Yasushi Uemura.	Molecular Therapy--Methods & Clinical Development	2021	6	21		171-179
Bench-Stable Electrophilic Fluorinating Reagents for Highly Selective Mono- and Difluorination of Silyl Enol Ethers	Kohsuke Aikawa KyoKo Nozaki Takashi Okazoe Yuichiro Ishibashi Akiya Adachi.	Chemistry (Weinheim an Der Bergstrasse, Germany)	2021	5			
Photo-on-Demand Synthesis of Vilsmeier Reagents with Chloroform and their Applications to One-Pot Organic Syntheses	Fengying Liang Kazuo Eda Takashi Okazoe Akihiro Wada Nobuaki Mori Katsuhiko Konishi Akihiko Tsuda.	Journal of Organic Chemistry	2021	5	86	9	6504-6517
Evaluation of Ionomer Distribution on Electrocatalysts for Polymer Electrolyte Fuel Cells by use of a Low Acceleration Voltage Scanning Electron Microscope	Katsuyoshi Kakinuma Masako Kawamoto Kayoko Tamoto Miho Yamaguchi Satoru Honmura Akihiro Iiyama Makoto Uchida.	Journal of the Electrochemical Society	2021	5	168	5	54510
Modeling the Structure and Dynamics of Lithium Borosilicate Glasses with Ab Initio Molecular Dynamics Simulations	Takahiro Ohkubo Shingo Urata Yutaka Imamura Taketoshi Taniguchi Nanae Ishioka Masamichi Tanida Eiji Tsuchida Lu Deng Jincheng Du	Journal of Physical Chemistry. C	2021	4	125	15	8080-8089
Co-Continuous Structural Effect of Size-Controlled Macro-Porous Glass Membrane on Extracellular Vesicle Collection for the Analysis of miRNA	Hiroshi Yukawa Shuji Yamazaki Keita Aoki Kengo Muto Naoto Kihara Kazuhide Sato Daisuke Onoshima Takahiro Ochiya Yasuhito Tanaka Yoshinobu Baba	Scientific Reports	2021	4	11	1	8672
Modulation of Interfacial Thermal Transport between Fumed Silica Nanoparticles by Surface Chemical Functionalization for Advanced Thermal Insulation	Takashi Kodama Nobuhiro Shinohara Shih-Wei Hung Bin Xu Masanao Obori Donguk Suh Junichiro Shiomi	ACS Applied Materials & Interfaces	2021	4	13	15	17404-17411
Hemimicelle Formation of Semi-Fluorocarbon Chains at Air-Water Interface: Coarse-Grained Molecular Dynamics Study with an Extension of the SPICA Force Field	Hari O. S. Yadav Shogo Harada An-Tsung Kuo Shingo Urata Wataru Shinoda	Molecular Physics	2021	4	ahead-of-print		

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Mechanical Properties of CaO–Al <sub>2</sub> O <sub>3</sub> –SiO <sub>2</sub> Glass-Ceramics Precipitating Hexagonal CaAl <sub>2</sub> Si <sub>2</sub> O <sub>8</sub> Crystals	Kei Maeda Kosho Akatsuka Gaku Okuma Atsuo Yasumori	Crystals (Basel)	2021	4	11	393	393
Tuning the Mechanical Toughness of the Metal Nanoparticle - implanted Glass: The Effect of Nanoparticle Growth Conditions	Madoka Ono Satoshi Miyasaka Yoichi Takato Shingo Urata Yasuo Hayashi	Journal of the American Ceramic Society	2021	3			
Practical Strength of Damage-Resistant CaO–Al <sub>2</sub> O <sub>3</sub> –SiO <sub>2</sub> Glass-Ceramic	Kei Maeda Kosho Akatsuka Atsuo Yasumori	Ceramics International	2021	3	47	6	8728-8731
Molecular Dynamics Study on the Co-Doping Effect of Al <sub>2</sub> O <sub>3</sub> and Fluorine to Reduce Rayleigh Scattering of Silica Glass	Shingo Urata Nobuhiro Nakamura Tomofumi Tada Hideo Hosono	Journal of the American Ceramic Society	2021	3	Early View		
Evaluation of Time-of-Flight Secondary Ion Mass Spectrometry Spectra of Peptides by Random Forest with Amino Acid Labels: Results from a Versailles Project on Advanced Materials and Standards Interlaboratory Study	Satoka Aoyagi Yukio Fujiwara Akio Takano Jean-Luc Vorng Ian S. Gilmore Yung-Chen Wang Elke Tallarek Birgit Hagenhoff Shin-ichi Iida Andreas Luch Harald Jungnel <b>Yusheng Lang</b> Hyun Kyong Shon Tae Geol Lee Zhanping Li Kazuhiro Matsuda Ichiro Mihara Ako Miisho Yohei Murayama Takaharu Nagatomi Reiko Ikeda Masayuki Okamoto Kunio Saiga Toshihiko Tsuchiya Shigeaki Uemura	Analytical Chemistry (Washington, DC, United States)	2021	2	93	9	4191-4197
Coarse-Grained Molecular Dynamics Simulation of Perfluorosulfonic Acid Polymer in Water–Ethanol Mixtures	An-Tsung Kuo Shingo Urata Kazuhiro Nakabayashi Hiroyuki Watabe Satoru Honmura	Macromolecules	2021	1	54	2	609-620
Relaxation of Anisotropic Alkali Metaphosphate Glass	Jun Endo Seiji Inaba Setsuro Ito	Materials Letters	2021	1	283		128762
Thermoregulation Model JOS-3 with New Open Source Code	Yoshito Takahashi Akihisa Nomoto Shu Yoda Ryo Hisayama Masayuki Ogata <b>Yoshiichi Ozeki</b> Shin-ichi Tanabe	Energy and Buildings	2021	1	231		110575
Terbium III-Doped Fluorescent Glass for Biology	Kazuki Okamoto Teppe Ebina <b>Naoki Fujii</b> Kuniaki Konishi Yu Sato Tetsuhiko Kashima Risako Nakano Hiroyuki Hioki Haruki Takeuchi Junji Yumoto Masanori Matsuzaki Yuji Ikegaya	Science Advances	2021	1	7	2	eabd2529
How Fluorine Minimizes Density Fluctuations of Silica Glass: Molecular Dynamics Study with Machine-Learning Assisted Force-Matching Potential	Shingo Urata Nobuhiro Nakamura Kento Aiba Tomofumi Tada Hideo Hosono	Materials & Design	2021	1	197		109210

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Transparent Glass Quartz Antennas on the Windows of 5G-Millimeter-Wave-Connected Cars	Osamu Kagaya Yasuo Morimoto Takeshi Motegi Minoru Inomata	IEICE Transactions on Communications	2021	1	E104.B	1	64-72
Ion-Exchange Mechanisms and Interfacial Reaction Kinetics during Aqueous Corrosion of Sodium Silicate Glasses	Deng Lu Miyatani Katsuaki Suehara Michinori Ammu Shin-ichi Ono Madoka Urata Shingo Du Jincheng	Npj Materials Degradation	2021	1	5	1	1-13
Correction to: Abrupt Initiation of Material Removal by Focusing Continuous-Wave Fiber Laser on Glass	Reina Yoshizaki Yusuke Ito Naoyuki Miyamoto Akihiro Shibata Ikuo Nagasawa Keisuke Nagato Naohiko Sugita	Applied Physics. A, Materials Science & Processing	2021	1	127	1	Article number: 1
Understanding Thermal Expansion of Pressurized Silica Glass using Topological Pruning of Ring Structures	Yongjian Yang Hirofumi Tokunaga Kazutaka Hayashi Madoka Ono John C. Mauro	Journal of the American Ceramic Society	2021	1	104	1	114-127
Tb3+-Doped Fluorescent Glass for Biology	Kazuki Okamoto Teppei Ebina Naoki Fujii Kuniaki Konishi Yu Sato Tetsuhiko Kashima Risako Nakano Hiroyuki Hioki Haruki Takeuchi Junji Yumoto Masanori Matsuzaki Yuji Ikegaya	Science Advances	2021	1	7	2	eabd2529
Determination of Sulfur in Soda-Lime Silicate Glass by Inductively Coupled Plasma Atomic Emission Spectroscopy Following Separation using an Alumina Column	Yoshitaka Saijo Yuichi Suzuki Ryoji Akiyama Kiyotaka Miura	Journal of the Ceramic Society of Japan	2021	1	129	1	54-59
Surface Modification of Soda-Lime-Silicate Glass Via the High-Temperature Electrochemical Injection of Tin Ions	Satoshi Miyasaka Tomohiro Ishiyama Masanori Nakano Kazutaka Yanagihara Yasuo Hayashi Takahisa Omata	Applied Surface Science	2020	12	532		147421
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	12	10	1	2906
A Novel Cardiac Differentiation Method of a Large Number and Uniformly-Sized Spheroids using Microfabricated Culture Vessels	Tatsuaki Miwa Alimjan Idiris Hiromichi Kumagai	Regenerative Therapy	2020	12	15		18-26
Viscosity of Na-Si-O-N-F Melts: Mixing Effect of Oxygen, Nitrogen, and Fluorine	Sohei Sukenaga Masayuki Ogawa Yutaka Yanaba Mariko Ando Hiroyuki Shibata	ISIJ International	2020	12	60	12	2794-2806
Molecular Dynamics Study on the Water Mobility and Side-Chain Flexibility of Hydrated Poly ( $\Omega$ -Methoxyalkyl Acrylate) S	An-Tsung Kuo Shingo Urata Ryohei Koguchi Toshiki Sonoda Shingo Kobayashi Masaru Tanaka	ACS Biomaterials Science & Engineering	2020	12	6	12	6690-6700
Modification of Fluoroelastomers Based on TFE-P Copolymer to Improve Cure Speed, Physical Properties and Mold Release	Keisuke Yagi	Rubber World	2020	12	263	3	18

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Anionic Polymerization of Methacrylate-Functionalized Ionic Monomers in Ionic Liquid	Nobuyuki Otozawa Masataka Yoshioka Daiki Ihara Rio Hamajima Raito Kato Toshiki Terao Hiroto Fukuma Satoshi Kuretani Tamio Seko Syuji Fujii Yoshinobu Nakamura Motoyasu Kobayashi Atsushi Takahara Tomoyasu Hirai	Chemistry Letters	2020	12	49	12	1459-1461
Life Prediction of Oxide Dispersion-Strengthened Platinum-Rhodium Alloy Subjected to High-Temperature Bending Fatigue Under Axial Stress	A. Niwa Y. Akita J. Arakawa H. Akebono A. Sugeta	International Journal of Fatigue	2020	11	140		105808
SpMnn9p and SpAnp1p Form a Protein Complex Involved in Mannan Synthesis in the Fission Yeast <i>Schizosaccharomyces Pombe</i>	Takao Ohashi Takanori Tanaka Naotaka Tanaka Kaoru Takegawa	Journal of Bioscience and Bioengineering	2020	10	130	4	335-340
Local Thickness and Composition Measurements from Scanning Convergent-Beam Electron Diffraction of a Binary Non-Crystalline Material obtained by a Pixelated Detector	K. Nakazawa K. Mitsuishi K. Shibata S. Amma T. Mizoguchi	Ultramicroscopy	2020	10	217		113077
Steering of Surface Discharges on through-Glass-Vias Combined with High-Density Nonequilibrium Atmospheric Pressure Plasma Generation	Yoichiro Sato Kaede Katsuno Hidefumi Odaka Nobuhiko Imajyo Kenji Ishikawa Masaru Hori	Journal of Physics. D, Applied Physics	2020	10	53	43	435203
Discovery of AgxTaS2 Superconductor with Stage-3 Structure	Khurelbaatar Zagazusem Masaya Fujioka Taizo Shibuya Satoshi Demura Shintaro Adachi Yoshihiko Takano Melbert Jeem Madoka Ono Hideo Kaiju Junji Nishii	2d Materials	2020	10	8	1	
Golgi Localization of Glycosyltransferases Requires Gpp74p in <i>Schizosaccharomyces Pombe</i>	Takao Ohashi Seijiro Hegi Takamasa Fukunaga Akira Hosomi Kaoru Takegawa	Applied Microbiology and Biotechnology   104 (20) : 8897-8909 Oct 2020	2020	10	104	20	8897-8909
Disclosing Crystal Nucleation Mechanism in Lithium Disilicate Glass through Molecular Dynamics Simulations and Free-Energy Calculations	Federica Lodesani Maria Cristina Menziani Kei Maeda Yoichi Takato Shingo Urata Alfonso Pedone	Scientific Reports	2020	10	10	1	17867
Collective Cancer Cell Invasion in Contact with Fibroblasts through Integrin- $\alpha 5 \beta 1$ /Fibronectin Interaction in Collagen Matrix	Kaoru Miyazaki Shinsaku Togo Reiko Okamoto Alimjan Idris Hiromichi Kumagai Yohei Miyagi	Cancer Science	2020	9	111	12	4381-4392
Evaluation of Glazing Retrofitting Solution for the Tropics	Wee Shing Koh Huizhe Liu Sivanand Somasundaram Sundar Raj Thangavelu Alex Chong Karthik Pillai Hirosi Kojima Yusuke Mori	Energy and Buildings	2020	9	223		110190
Abrupt Initiation of Material Removal by Focusing Continuous-Wave Fiber Laser on Glass	Reina Yoshizaki Yusuke Ito Naoyuki Miyamoto Akihiro Shibata Ikuo Nagasawa Keisuke Nagato Naohiko Sugita	Applied Physics. A, Materials Science & Processing	2020	9	126	9	Article number: 715

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Laminating FEPM Fluoroelastomers to Other Rubbers for Automotive Hose Applications	Keisuke Yagi.	Rubber World	2020	8	262	5	33
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	8	103	8	4256-4265
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	2020	8	34		e8584
In-Situ Observation of Damage Evolution in Polycarbonate Subjected to Hypervelocity Impact	Nobuaki Kawai Mikio Nagano Sunao Hasegawa Eiichi Sato	International Journal of Impact Engineering	2020	8	142		103584
Monodisperse Silica Nanoparticle-Carbon Black Composite Microspheres as Photonic Pigments	Miki Sakai Hyunji Kim Yusuke Arai Takuya Teratani Youhei Kawai Yuichi Kuwahara Keisuke Abe Yasuhiro Kuwana Katsuji Ikeda Kazuhiko Yamada Yukikazu Takeoka	ACS Applied Nano Materials	2020	7	3	7	7047-7056
Effect of the Packing Density on the Surface Hydrophobicity of $\omega$ -Functionalized (-CF <sub>3</sub> , -CH <sub>3</sub> , -OCH <sub>3</sub> , and -OH) Self-Assembled Monolayers: A Molecular Dynamics Study	Hari O. S. Yadav An-Tsung Kuo Shingo Urata Wataru Shinoda	Journal of Physical Chemistry. C	2020	7	124	26	14237-14244
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)	2020	7	58	14	1960-1964
Elucidating the Feature of Intermediate Water in Hydrated Poly ( $\Omega$ -Methoxyalkyl Acrylate) s by Molecular Dynamics Simulation and Differential Scanning Calorimetry Measurement	An-Tsung Kuo Toshiki Sonoda Shingo Urata Ryohei Koguchi Shingo Kobayashi Masaru Tanaka	ACS Biomaterials Science & Engineering	2020	7	6	7	3915-3924
Dynamics of an Anisotropic Metaphosphate LiNaKCsPO <sub>3</sub> Glass by Inelastic X - Ray Scattering	Shinya Hosokawa Seiji Inaba Hiroshi Uchiyama Satoshi Tsutsui	Physica Status Solidi (B)	2020	7	257	11	2000172
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	3171-3174
Control of 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
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

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高速高周波プリント基板向けフッ素樹脂材料の応用	笠井 渉	工業材料 = Engineering Materials	2021	5	69	5	43-47
材齢50年経過したアルミナセメントを用いたコンクリートの調査	吉田 友紀 俣野 健児 佐藤 正己 三五 弘之	耐火物	2021	5	73	5	162-170
電子線グラフト重合法によるイオン交換膜の開発 (第2報) 電子線グラフト重合法におけるラジカル挙動の評価	佐々木 貴明 永谷 剛 高橋 沙季 田柳 順一	日本海水学会誌 = Bulletin of the Society of Sea Water Science, Japan	2021	3	75	1	26-32
ふっ素樹脂系粉体塗装の実用化に関する研究 (その1): 基礎物性と耐候性の評価	奥田 章子 斉藤 俊 後藤 善光	AIJ Journal of Technology and Design	2021	2	27	65	42-47
高速高周波用フッ素系プリント基板用材料の開発動向	細田 朋也	JETI = ジェティ: Japan Engineering & Technology Intelligence: ものづくり・産業技術専門誌	2021	2	69	2	74-80
都市型焼却炉における高機能性モルタルの適用実績	清水 泰陽 井川 敬太 佐藤 芳則	耐火物	2021	2	73	2	45-49
ふっ素樹脂: ふっ素樹脂の市場・技術動向と、agcの用途開拓への取り組み	堀江 百合	プラスチック: 日本プラスチック工業連盟誌	2021	1	72	1	52-57
ガラスの化学 (1) ガラスの基礎と応用	前田 敬 (監修)	化学と教育 = Chemistry & Education	2020	12	68	12	520-523
ガラス: 分析試料の正しい取り扱い	西條 佳孝 竹中 敦義	ぶんせき	2020	12	2020	12	478-484
高強度ガラスと安全性	小池 章夫	無機マテリアル	2020	11	27	409	404-410
高強度ガラスと安全性	小池 章夫	Journal of the Society of Inorganic Materials, Japan: セッコウ・石灰・セメント・地球環境の科学	2020	11	27	409	404-410
アルミニウム溶解炉工期短縮による環境負荷低減	山田 泰士 宮岸 佳正 川崎 正人 飯田 竜太	環境と耐火物研究会報告集	2020	10	19		1-11
高精度コンピュータグラフィックス技術を利用したガラス外観シミュレーションシステムの開発	植村 健	JETI = ジェティ: Japan Engineering & Technology Intelligence: ものづくり・産業技術専門誌	2021	9	68	9	74-80
流動接触分解装置用耐火物	野田 隆 中根 貴行	耐火物	2020	9	72	9	382-385
進化しつづける最新ガラスの科学: 人類の発展を支えつづけてきた古くて新しい物質ガラスの秘密にせまる	前田敬 (監修)	Newton = ニュートン: Graphic Science Magazine	2020	7	40	8	108-115
低損失ファイバレーザーに向けたシリカガラスの空隙制御	小野 円佳	レーザー研究 = the Review of Laser Engineering: レーザー学会誌	2020	7	48	7	339-343
低 gwp 冷媒の開発	福島 正人	冷凍 = Refrigeration	2020	7	95	1112	341-344
建物や車の外観を損なわない通信用ガラスアンテナの開発	中村 武宏 杉本 直樹	ARIB 機関誌: ARIB Bulletin	2020			110	41-45
ガラス基板	林 和孝	2020 版 薄膜作製応用ハンドブック	2020				