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N-Fluorobenzenesulfonimide (NFSI) analogs with deprotectable substituents: synthesis of β -fluoroamines via catalytic aminofluorination of styrenes	Ito, Yuki; Adachi, Akiya; Aikawa, Kohsuke; Nozaki, Kyoko; Okazoe, Takashi	Chemical Communications (Cambridge, United Kingdom)	2023		59	60	9195-9198	10.1039/d3cc02292g
Fundamental Study on the Applicability of Fluorine Coated Steel Bars to Concrete Members	菅原大征, 山口浩平, 尾知修平	土木学会全国大会年次学術講演会 (Web)	2023		78th		ROMBUNNO. V-730 (WEB ONLY)	
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New EUV mask blank for N3 technology node and beyond	Yang S. H., Chen W. T., Huang C. Y., Lee Chien-Min, Huang Joy, Lin Shy-Jay, Chen C. L., Ikuta Yoshiaki, Satoh Tomohiko, Nakakita Yosuke	Proceedings of SPIE	2023		12751		127510 G-9	10.1117/12.2688179
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Property estimation of amorphous inorganic materials using machine learning potential	Urata, Shingo	Journal of the Society of Inorganic Materials, Japan	2023	NOV 30	30	427	356-360	
Study on reduction of electrostatic ignition risk by advanced antistatic technology	三浦崇, Choi Kwangseok, 遠藤雄大, 丸野忍, 笹原康平, 安田興平, 長田裕生, 鈴木輝夫, 松永武士, 吉原俊輔, 柳田建三, 櫻井宣文, 白松憲一郎, 仲山朝陽	労働安全衛生総合研究所特別研究報告 JNIOHS-SRR	2023	NOV 30		53	1-11	
Indentation-induced ductile behavior of glass-ceramics involving layered aluminosilicates	Maeda Kei , Okuma Gaku, Yoshida Satoshi, Wakai Fumihiro, Takeuchi Akihisa, Uesugi Masayuki, Yanagioka Shun, Matsunuma Shun, Machida Shingo, Yasumori Atsuo	Journal of the American Ceramic Society	2023	DEC	106	12	7440-7448	10.1111/jace.19335
Multi-user beamforming with a reconfigurable intelligent surface using stereo camera images	Ebihara, Akira; Kumagai, Akira; Kataoka, Mizuki; Ui, Yutaka; Kagaya, Osamu; Morikawa, Hiroyuki; Narusue, Yoshiaki	ELECTRONICS LETTERS	2023	DEC	59	24	Article No.e13061	10.1049/ell2.13061
Species-differences in the in vitro biotransformation of trifluoroethene (HFO-1123)	Dekant, R.; Bertermann, R.; Serban, J.; Sharma, S.; Shinohara, M.; Morizawa, Y.; Okamoto, H.; Brock, W.; Dekant, W.; Mally, A.	ARCHIVES OF TOXICOLOGY	2023	DEC	97	12	3095-3111	10.1007/s00204-023-03603-3
Study on Mental State Improvement after Disaster Using Art Content and Mirror Display	中津良平, 土佐尚子 新山聡, 楠見孝	京都大学防災研究所年報 (Web)	2023	DEC		66B	21-32 (WEB ONLY)	
化学物質関連法規制事典 第17回 食品衛生法	岡部正明	月刊化学物質管理	2023	DEC	8	5	62-65	
分子動力学計算を用いた高分子材料の誘電損失予測	舟橋康佑, 郭安聰	分子シミュレーション 討論会講演要旨集	2023	DEC 4	37th		50	
Single-model uncertainty quantification in neural network potentials does not consistently outperform model ensembles	Tan, Aik Rui; Urata, Shingo; Goldman, Samuel; Dietschreit, Johannes C. B.; Gomez-Bombarelli, Rafael	NPJ COMPUTATIONAL MATERIALS	2023	DEC 16	9	1	Article No.225	10.1038/s41524-023-01180-8
フルオロアルケンの触媒的メタセシス反応	高平祐介	CSJ Current Review	2023	DEC 31		47	152-153	
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Deep learning-based approach for multi-functional fabrication-friendly metasurfaces	Ueno, Akira; Lin, Hung-I; Yang, Fan; An, Sensong; Martin-Monier, Louis; Shalaginov, Mikhail Y.; Gu, Tian; Hu, Juejun	HIGH CONTRAST METASTRUCTURES XIII	2024		12897		Article Number: 1289708	10.1117/12.3002724

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化学物質関連法規制事典 最終回 医薬品、医療機器等の品質、有効性及び安全性の確保等に関する法律	岡部正明	月刊化学物質管理	2024	JAN	8	6	53-57	
Thermal Analysis (TG/DTA) —What We Can See from the Temperature Change of a Sample—	吉田智	セラミックス	2024	JAN 1	59	1	53-56	
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Determination of Fe ²⁺ in tin oxide-containing glass through valence-selective solvent extraction and colorimetric analysis following glass decomposition	Kanno, Naoki; Murata, Makiko; Saijo, Yoshitaka; Nakase, Masahiko	CHEMISTRY LETTERS	2024	JAN 11	53	1	upad 014	10.1093/chemle/upad014
Experimental and Theoretical Studies on Stereomutation Through gem-Difluorocyclopropanylidene Intermediates	Akaishi, Dai; Sekine, Keisuke; Ito, Shigekazu	ASIAN JOURNAL OF ORGANIC CHEMISTRY	2024	JAN 15			e2023 00566	10.1002/ajoc.202300566
Atomistic mechanism of structural and volume relaxation below glass transition temperature in a soda-lime silicate glass revealed by Raman spectroscopy and its DFT calculations	Suzuki, Taisuke; Hamada, Yuya; Shimizu, Masahiro; Urata, Shingo; Shimotsuna, Yasuhiko; Miura, Kiyotaka	JOURNAL OF CHEMICAL PHYSICS	2024	JAN 21	160	3	34501	10.1063/5.0181160
Correction: Species-differences in the in vitro biotransformation of trifluoroethene (HFO-1123)	Dekant, R.; Bertermann, R.; Serban, J.; Sharma, S.; Shinohara, M.; Morizawa, Y.; Okamoto, H.; Brock, W.; Dekant, W.; Mally, A.	Archives of Toxicology	2024	JAN 31	98	1	363-364	10.1007/s00204-023-03640-y
Effect of ZrSnO ₄ solid solution on the crystallization behavior of Li ₂ O-Al ₂ O ₃ -SiO ₂ glasses	Dekant, R.; Bertermann, R.; Serban, J.; Sharma, S.; Shinohara, M.; Morizawa, Y.; Okamoto, H.; Brock, W.; Dekant, W.; Mally, A.	International Journal of Applied Glass Science	2024	JAN 31	15	1	31-43	10.1111/ijag.16644
A comparison of photoelastic constants of disk- and square-shaped glasses using the heterodyne method: An empirical approach	Miyoshi, Ryuta; Wada, Masaki; Hijiyi, Hiroyuki; Nagano, Mikio; Koike, Akio; Saitoh, Akira	JOURNAL OF THE CERAMIC SOCIETY OF JAPAN	2024	FEB	132	3	104-108	10.2109/jcersj2.23175
Effective thermal strengthening of glass by enhanced configurational entropy at its supercooled state	Ono, Madoka; Amma, Shin-Ichi; Miyajima, Tatsuya; Yoda, Kazushige; Kato, Yasumasa; Ito, Setsuro	MATERIALS & DESIGN	2024	FEB	238		112661	10.1016/j.matdes.2024.112661
Homogenization Method and Machine Learning Analysis for Improving Acoustic Properties of Laminated Sound-Absorbing Materials	藤原幸宏, 山本崇史	自動車技術 (Web)	2024	FEB 1	78	2	64-70 (WEB ONLY)	
Fluorine-driven amorphous solid-state polycondensation: phosgene-free synthesis of high-molecular weight polycarbonate from fluorinated carbonate	Taniguchi, Taihei; Shirota, Naoko; Okazoe, Takashi; Matsuoka, Shin-Ichi; Yamamoto, Katsuhiko; Suzuki, Masato	POLYMER CHEMISTRY	2024	FEB 6	15	6	508-515	10.1039/d3py01296d

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HFガスを用いたガラス表面へ微細多孔質構造の構築と他部材への密着特性向上	安田興平, 林泰夫, 本間敬之	表面技術協会講演大会 講演要旨集	2024	FEB 20	149th		117	
Fabrication of Superhydrophobic Nanostructures on Glass Surfaces Using Hydrogen Fluoride Gas	Yasuda, Kohei; Hayashi, Yasuo; Homma, Takayuki	ACS OMEGA	2024	FEB 27	9	10	12204-12210	10.1021/ acsomega. 4c00170
RF-IDを用いたガラス原料管理のスマート化	田中卓弥	月刊車載テクノロジー	2024	FEB 29	11	5	68-73	
Effect of impurity doping on luminescence materials investigated by probing vacancy-type defects	北浦守, 渡邊真太, 平義隆	陽電子科学	2024	MAR 1		22	9-16	
One-Flow Operation via 4-Bromopyridine Enables Flash Synthesis of AChE Inhibitor	Soutome, Hiroki; Kimuro, Yusuke; Kawaguchi, Tomoko; Yoo, Dong-Eun; Yao, Yiyue; Oshida, Shuto; Nakayama, Hiroki; Iwata, Masatomo; Ebisawa, Ruka; Kikuchi, Ryuhei; Tomite, Kyosuke; Wada, Shuto; Ashikari, Yosuke; Nagaki, Aiichiro	SYNTHESIS- STUTTGART	2024	MAR 1	56	5	821-827	10.1055/ a-2218-9048
Modifying ring structures in lithium borate glasses under compression: MD simulations using a machine-learning potential	Urata, Shingo; Tan, Aik Rui; Gomez-Bombarelli, Rafael	PHYSICAL REVIEW MATERIALS	2024	MAR 7	8	3	Article Number: 33602	10.1103/ PhysRev Materials. 8.033602
Complete genome sequence of <i>Luteolibacter</i> sp. strain LG18, an L-glucose-utilizing bacterium isolated from soil	Yachida, Masashi; Nakamura, Akira	MICROBIOLOGY RESOURCE ANNOUNCEMENTS	2024	MAR 12	13	3		10.1128/ mra.00888-23
Highly Productive Flow Synthesis for Lithiation, Borylation, and/or Suzuki Coupling Reaction	Soutome, Hiroki; Maekawa, Kei; Ashikari, Yosuke; Nagaki, Aiichiro	ORGANIC PROCESS RESEARCH & DEVELOPMENT	2024	MAR 13	28	5	2006-2012	10.1021/acs. opr.4c00021
Relationship between polymer structure and dry-wet cycling resistance of perfluorosulfonic acid membranes	Miyajima, Tatsuya; Okuyama, Takumi; Saito, Susumu; Watabe, Hiroyuki; Morita, Chiho; Hirai, Takeshi; Shimohira, Tetsuji; Matsuba, Go	Polymer	2024	MAR 15	296		126789	10.1016/ j.polymer. 2024.126789
Impact of Atomic Defects on Ceria Surfaces on Chemical Mechanical Polishing of Silica Glass Surfaces	Di Biase, Mirko; Brugnoli, Luca; Miyatani, Katsuaki; Akaji, Masatoshi; Yoshida, Takumi; Urata, Shingo; Pedone, Alfonso	LANGMUIR	2024	MAR 20	40	13	6773-6785	10.1021/ acs.langmuir. 3c03557
Effects of Humidity and Produced Water on Specific Adsorption of High Oxygen Permeability Ionomers Composed Entirely of Cyclic Monomers on Cathode Performance for Polymer Electrolyte Fuel Cells	Hirai, Takeshi; Hommura, Satoru; Watakabe, Atsushi; Miyajima, Tatsuya; Nakayama, Suguru; Tamoto, Kayoko; Uchida, Makoto	ACS APPLIED ENERGY MATERIALS	2024	APR 16	7	9	3806-3823	10.1021/ acs.aem. 4c00177
Formation of a zirconium oxide crystal nucleus in the initial nucleation stage in aluminosilicate glass investigated by X-ray multiscale analysis	Onodera, Yohei; Takimoto, Yasuyuki; Hijiya, Hiroyuki; Li, Qing; Tajiri, Hiroo; Ina, Toshiaki; Kohara, Shinji	NPG ASIA MATERIALS	2024	APR 19	16	1	22	10.1038/ s41427-024- 00542-y
Atmospheric Gas-Phase Catalyst Etching of SiO ₂ for Deep Microfabrication Using HF Gas and Patterned Photoresist	Sano, Ko-Hei; Ono, Yoshitaka; Tobinaga, Ryosuke; Imamura, Yutaka; Hayashi, Yasuo; Yanagitani, Takahiko	ACS APPLIED MATERIALS & INTERFACES	2024	APR 23	16	17	22657-22664	10.1021/ acsami. 4c01291

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Highly crystalline yttria-stabilized zirconia and titania thin films on plastic substrates via sol-gel transfer process	Kozuka, Hiromitsu; Yamada, Takehito; Okuda, Ryota; Hirakoso, Hideyuki	JOURNAL OF THE AMERICAN CERAMIC SOCIETY	2024	MAY 5			Early Access	10.1111/jace.19857
In situ observation of fatigue crack propagation in soda-lime glass with initial crack and residual stress induced by Vickers indentation under four-point bending	Komine, Hibiki; Fujita, Keisuke; Niwa, Akifumi; Kobayashi, Yusuke; Sato, Yosuke; Kuroda, Ryunosuke; Kikuchi, Shoichi	FATIGUE & FRACTURE OF ENGINEERING MATERIALS & STRUCTURES	2024	MAY 10			Early Access	10.1111/ffe.14324
Synthesis of poly (methylsilsesquioxane-co-dimethylsiloxane) liquids and deep-ultraviolet transparent elastic resins through co-solvent-free water-rich hydrolytic polycondensation of organoalkoxysilanes	Yoshida, Takuma; Ishijima, Masanao; Yoshida, Satoshi; Koike, Akio; Kajihara, Koichi	POLYMER CHEMISTRY	2024	MAY 14	15	19	1937-1941	10.1039/d4py00146j
Boron coordination and three-membered ring formation in sodium borate glasses: a machine-learning molecular dynamics study	Kato, Takeyuki; Lodesani, Federica; Urata, Shingo	Journal of the American Ceramic Society	2024	MAY 31	107	5	2888-2900	10.1111/jace.19629
High Sensitivity Characteristics of Tapered Fiber Plasmon Sensor With Gold Nanoparticles in 1500 nm Wavelength Band	Yamamoto, Masahiro; Ji, Tianpeng; Miyazaki, Aya; Matsushima, Yuichi; Ishikawa, Hiroshi; Utaka, Katsuyuki	IEEE JOURNAL OF QUANTUM ELECTRONICS	2024	JUN	60	3	7200107	10.1109/JQE.2024.3366468
Applications of machine-learning interatomic potentials for modeling ceramics, glass, and electrolytes: A review	Urata, Shingo; Bertani, Marco; Pedone, Alfonso	JOURNAL OF THE AMERICAN CERAMIC SOCIETY	2024	JUN 9			Early Access	10.1111/jace.19934
Fluorocarbon-DNA conjugates for enhanced cellular delivery: Formation of a densely packed DNA nano-assembly.	Narita, Minako; Kohata, Ai; Kageyama, Taiichi; Watanabe, Honoka; Aikawa, Koksuke; Kawaguchi, Daisuke; Morihiro, Kunihiko; Okamoto, Akimitsu; Okazoe, Takashi	ChemBiochem : a European journal of chemical biology	2024	JUN 10			e202400436	10.1002/cbic.202400436
Equivalent contact temperature (ECT) for personal comfort assessment - analytical description and definition of comfort limits.	Warthmann, Alexander; Kohri, Itsuhei; Ozeki, Yoshiichi; Nagano, Hideaki; Van Treeck, Christoph	Ergonomics	2024	JUN 11	67	2	207-224	10.1080/00140139.2023.2219044
Convergent approach for direct cross-coupling enabled by flash irreversible generation of cationic and anionic species.	Soutome, Hiroki; Yamashita, Hiroki; Shimizu, Yutaka; Takumi, Masahiro; Ashikari, Yosuke; Nagaki, Aiichiro	Nature communications	2024	JUN 13	15	1	4873	10.1038/s41467-024-48723-1