

7. 登録論文の被引用数

PF の論文成果としてこれまでに登録された論文（20631 報）について、Scopus を元に 2024 年 7 月時点での被引用数を調査した。全期間、直近 10 年、および各年の登録論文において、被引用数の上位 10 位までにランクされる論文を以下に紹介する。

全期間の被引用数 Top10（1983 ～ 2024 年）

論文タイトル	著者名	雑誌名	発行年	使用 BL	被引用数
Magnetic Control of Ferroelectric Polarization	T.Kimura, T.Goto, H.Shintani, K.Ishizaka, T.Arima and Y.Tokura	Nature	2003	4C	4347
Atomic Structure and Chemistry of Human Serum Albumin	X.M.He and D.C.Carter	Nature	1992	14A	3734
Ordered Nanoporous Arrays of Carbon Supporting High Dispersions of Platinum Nanoparticles	S.H.Joo, S.J.Choi, I.Oh, J.Kwak, Z.Liu, O.Terasaki and R.Ryoo	Nature	2001	10B	2468
P2-Type $\text{Na}_x[\text{Fe}_{1/2}\text{Mn}_{1/2}]\text{O}_2$ made from Earth-Abundant Elements for Rechargeable Na Batteries	N.Yabuuchi, M.Kajiyama, J.Iwatate, H.Nishikawa, S.Hitomi, R.Okuyama, R.Usui, Y.Yamada and S.Komaba	Nature Materials	2012	12C	2048
The Selective Autophagy Substrate P62 Activates the Stress Responsive Transcription Factor Nrf2 through Inactivation of Keap1	M.Komatsu, H.Kurokawa, S.Waguri, K.Taguchi, A.Kobayashi, Y.Ichimura, Y.-S.Sou, I.Ueno, A.Sakamoto, K.I.Tong, M.Kim, Y.Nishito, S.-I.Iemura, T.Natsume, T.Ueno, E.Kominami, H.Motohashi, K.Tanaka and M.Yamamoto	Nature Cell Biology	2010	NW12A	2041
Structure at 2.8 Å Resolution of Cytochrome c Oxidase from <i>Paracoccus denitrificans</i>	S.Iwata, C.Ostermeier, B.Ludwig and H.Michel	Nature	1995	6A	2020
The Whole Structure of the 13-Subunit Oxidized Cytochrome c Oxidase at 2.8 Å	T.Tsukihara, H.Aoyama, E.Yamashita, T.Tomizaki, H.Yamaguchi, K.Shinzawa-Itoh, R.Nakashima, R.Yaono and S.Yoshikawa	Science	1996	6A	1999
Highly Efficient Water Splitting into H_2 and O_2 over Lanthanum-Doped NaTaO_3 Photocatalysts with High Crystallinity and Surface Nanostructure	H.Kato, K.Asakura and A.Kudo	Journal of the American Chemical Society	2003	9A	1670
Inkjet Printing of Single-Crystal Films	H.Minemawari, T.Yamada, H.Matsui, J.Tsutsumi, S.Haas, R.Chiba, R.Kumai and T.Hasegawa	Nature	2011	8A	1658
Experimental Evidence for Epitaxial Silicene on Diboride Thin Films	A.Fleurence, R.Friedlein, T.Ozaki, H.Kawai, Y.Wang and Y.Yamada-Takamura	Physical Review Letters	2012	18A	1518

※被引用数は 2025 年 7 月 Scopus 調べ

直近 10 年の被引用数 Top10 (2015 ~ 2024 年)

論文タイトル	著者名	雑誌名	発行年	使用 BL	被引用数
Skyrmion Lattice with a Giant Topological Hall Effect in a Frustrated Triangular-Lattice Magnet	T.Kurumaji, T.Nakajima, M.Hirschberger, A.Kikkawa, Y.Yamasaki, H.Sagayama, H.Nakao, Y.Taguchi, T.-H.Arima and Y.Tokura	Science	2019	3A	558
Evidence for Magnetic Weyl Fermions in a Correlated Metal	K.Kuroda, T.Tomita, M.-T.Suzuki, C.Bareille, A.A.Nugroho, P.Goswami, M.Ochi, M.Ikhlal, M.Nakayama, S.Akebi, R.Noguchi, R.Ishii, N.Inami, K.Ono, H.Kumigashira, A.Varykhalov, T.Muro, T.Koretsune, R.Arita, S.Shin, T.Kondo and S.Nakatsuji	Nature Materials	2017	28A, 28B	537
Self-Assembly of Tetravalent Goldberg Polyhedra from 144 Small Components	D.Fujita, Y.Ueda, S.Sato, N.Mizuno, T.Kumasaka and M.Fujita	Nature	2016	1A	527
Sodium-Ion Intercalation Mechanism in MXene Nanosheets	S.Kajiyama, L.Szabova, K.Sodeyama, H.Iinuma, R.Morita, K.Gotoh, Y.Tateyama, M.Okubo and A.Yamada	ACS Nano	2016	9C	522
PLEKHM1 Regulates Autophagosome-Lysosome Fusion through HOPS Complex and LC3/GABARAP Proteins	D.G.McEwan, D.Popovic, A.Gubas, S.Terawaki, H.Suzuki, D.Stadel, F.P.Coxon, D. MirandadeStegmann, S.Bhogaraju, K. Maddi, A.Kirchof, E.Gatti, M.H.Helfrich, S.Wakatsuki, C.Behrends, P. Pierre and I.Dikic	MOLECULAR CELL	2015	5A	450
High-Capacity Electrode Materials for Rechargeable Lithium Batteries: Li ₃ NbO ₄ -Based System with Cation-Disordered Rocksalt Structure	N.Yabuuchi, M.Takeuchi, M.Nakayama, H.Shiiba, M.Ogawa, K.Nakayama, T.Ohta, D.Endo, T.Ozaki, T.Inamasu, K.Sato and S.Komaba	Proceedings of the National Academy of Science, USA	2015	9C	444
DWARF14 is a Non-Canonical Hormone Receptor for Strigolactone	R.Yao, Z.Ming, L.Yan, S.Li, F.Wang, S.Ma, C.Yu, M.Yang, L.Chen, L.Chen, Y.Li, C.Yan, D.Miao, Z.Sun, J.Yan, Y.Sun, L.Wang, J.Chu, S.Fan, W.He, H.Deng, F.Nan, J.Li, Z.Rao, Z.Lou and D.Xie	Nature	2016	NE3A	428
Dirac Fermions in Borophene	B.Feng, O.Sugino, R.-Y.Liu, J.Zhang, R.Yukawa, M.Kawamura, T.Iimori, H.Kim, Y.Hasegawa, H.Li, L.Chen, K.Wu, H.Kumigashira, F.Komori, T.-C.Chiang, S.Meng and I.Matsuda	Physical Review Letters	2017	2A, 2B	423
MXene as a Charge Storage Host	M.Okubo, A.Sugahara, S.Kajiyama and A.Yamada	Accounts of Chemical Research	2018	9C	391
Origin of Stabilization and Destabilization in Solid-State Redox Reaction of Oxide Ions for Lithium-Ion Batteries	N.Yabuuchi, M.Nakayama, M.Takeuchi, S.Komaba, Y.Hashimoto, T.Mukai, H.Shiiba, K.Sato, Y.Kobayashi, A.Nakao, M.Yonemura, K.Yamanaka, K.Mitsuhashi and T.Ohta	Nature Communications	2016	12C	374

※被引用数は 2025 年 7 月 Scopus 調べ

2024 年出版

論文タイトル	著者名	雑誌名	使用 BL	被引用数
Observation of a Giant Band Splitting in Altermagnetic MnTe	T.Osumi S.Souma T.Aoyama, K.Yamauchi A.Honma K.Nakayama T.Takahashi, K.Ohgushi and T.Sato	Physical Review B	28A, 28B, 2A, 2B	102
High-Performance NIR Emission in Chromium-Doped Garnet Phosphors Enabled by Structure and Excitation Regulation	Z.Li, G.Zhu, S.Li, W.Xu, Q.Bian, Y.Cong, M.He, X.Luo, S.Xin and B.Dong	Laser and Photonics Reviews	9A	43
Multistep Topological Transitions among Meron and Skyrmion Crystals in a Centrosymmetric Magnet	H.Yoshimochi, R.Takagi, J.Ju, N.D.Khanh, H.Saito, H.Sagayama, H.Nakao, S.Itoh, Y.Tokura, T.Arima, S.Hayami, T.Nakajima and S.Seki	Nature Physics	3A	32
Fucoidan from Brown Seaweed Tubinaria Decurrens: Structure and Structure - Anticancer activity Relationship	A.N.Nguyen, Q.Van Ngo, T.T.M.Quach, S.Ueda, Y.Yuguchi, Y.Matsumoto, S.Kitamura, C.D.Ho and T.T.T.Thanh	International Journal of Biological Macromolecules	6A	20
Analysis of Nanomaterial Biocoronas in Biological and Environmental Surroundings	P.Zhang, M.Cao, A.J.Chetwynd, K.Faserl, F.Abdolapur Monikh, W.Zhang, R. Ramautar, L.-J.A.Ellis, H.H.Davoudi, K.Reilly, R.Cai, K.E.Wheeler, D.S.T.Martinez, Z.Guo, C.Chen and I.Lynch	Nature Protocols	11B, 12C	19
Highly Effective Photocatalytic Degradation of Plastic Film (LDPE) using Ruthenium-Incorporated g-C3N4 via the Norrish Mechanism	L.A.Ningsih, P.-Y.Lu, S.Ashimura, M.Yoshida, W.-C.Chen, Y.-C.Chiu and C.Hu	Chemical Engineering Journal	12C	19
High Proton Conduction in the Octahedral Layers of Fully Hydrated Hexagonal Perovskite-Related Oxides	K.Matsuzaki, K.Saito, Y.Ikeda, Y.Nambu and M.Yashima	Journal of the American Chemical Society	4B2	15
Effects of Thiophene-Fused Isomer on High-Layered Crystallinity in π -Extended and Alkylated Organic Semiconductors	T.Higashino, S.Inoue, S.Arai, S.Tsuzuki, H.Matsui, R.Kumai, K.Takaba, S. Maki-Yonekura, H.Kurokawa, I.Inoue, K.Tono, K.Yonekura and T.Hasegawa	Chemistry of Materials	7C, 8A	15
Unraveling Non-Uniform Strain-Induced Crystallization Near a Crack Tip in Natural Rubber	T.-T.Mai, T.Yasui, R.Tanaka, H.Masunaga, T.Kabe, K.Tsunoda, S.Sakurai and K.Urayama	Advanced Science	15A2	14
Understanding the Effects of Ethanol on the Liposome Bilayer Structure using Microfluidic-Based Time-Resolved Small-Angle X-ray Scattering and Molecular Dynamics Simulations	M.Maeki, N.Kimura Y.Okada, K.Shimizu, K.Shibata, Y.Miyazaki, A.Ishida, K.Yonezawa, N.Shimizu, W.Shinoda and M.Tokeshi	Nanoscale Advances	15A2	13
Unlocking Electrode Performance of Disordered Rocksalt Oxides Through Structural Defect Engineering and Surface Stabilization with Concentrated Electrolyte	Y.Zhang, Y.Ugata, B.L.Campéon and N.Yabuuchi	Advanced Energy Materials	12C	13
Development of Polymer-Lipid Hybrid Nanoparticles for Large-Sized Plasmid DNA Transfection	M.Maeki, S.Uno, K.Sugiura, Y.Sato, Y.Fujioka, A.Ishida, Y.Ohba, H.Harashima and M.Tokeshi	ACS Applied Materials and Interfaces	15A2	13
Close Stacking of Antiaromatic Ni(II) Norcorrole Originating from a Four-Electron Multicentered Bonding Interaction	S.Kino, S.Ukai, N.Fukui, R.Haruki, R.Kumai, Q.Wang, S.Horike, Q.M.Phung, D.Sundholm and H.Shinokubo	Journal of the American Chemical Society	8A	13

※被引用数は 2025 年 7 月 Scopus 調べ

2023 年出版

論文タイトル	著者名	雑誌名	使用 BL	被引用数
Formation and Evolution of Carbonaceous Asteroid Ryugu: Direct Evidence from Returned Samples	T.Nakamura <i>et.al.</i> ,	Science	3A, 19A	210
Macromolecular Organic Matter in Samples of the Asteroid (162173) Ryugu	H.Yabuta <i>et.al.</i> ,	Science	19A, 19B	87
Impact of Ti and Zn Dual-Substitution in P2 Type $\text{Na}_{2/3}\text{Ni}_{1/3}\text{Mn}_{2/3}\text{O}_2$ on Ni-Mn and Na-Vacancy Ordering and Electrochemical Properties	K.Kubota, T.Asari and S.Komaba	Advanced Materials	12C	87
Evolution of Short-Range Order and Its Effects on the Plastic Deformation Behavior of Single Crystals of the Equiatomic Cr-Co-Ni Medium-Entropy Alloy	L.Li, Z.Chen, S.Kuroiwa, M.Ito K.Yuge, K.Kishida, H.Tanimoto, Y.Yu, H.Inui and E.P.George	Acta Materialia	12C	78
NH_4Cl -Assisted Preparation of Single Ni Sites Anchored Carbon Nanosheet Catalysts for Highly Efficient Carbon Dioxide Electroreduction	D.Ping, F.Yi G.Zhang, S.Wu, S.Fang, K.Hu, B.B.Xu, J.Ren and Z.Guo	Journal of Materials Science and Technology	12C	69
Strain-Induced Crystallization and Phase Separation used for Fabricating a Tough and Stiff Slide-Ring Solid polymer Electrolyte	K.Hashimoto, T.Shiwaku, H.Aoki, H.Yokoyama, K.Mayumi and K.Ito	Science Advances	10C	61
Highly Efficient and Stable Photothermal Catalytic CO_2 Hydrogenation to Methanol over $\text{Ru}/\text{In}_2\text{O}_3$ under Atmospheric Pressure	B.Deng H.Song, Q.Wang, J.Hong, S.Song, Y. Zhang, K.Peng, H.Zhang, T.Kako and J.Ye	Applied Catalysis B: Environmental	NW10A	54
A near Dimensionally Invariable High-Capacity Positive Electrode Material	I. Konuma, D.Goonetilleke, N.Sharma, T.Miyuki, S.Hiroi, K.Ohara, Y.Yamakawa, Y.Morino, H.B.Rajendra, T.Ishigaki and N.Yabuuchi	Nature Materials	9C	50
Platinum Nanosheets Synthesized via Topotactic Reduction of Single-Layer Platinum Oxide Nanosheets for Electrocatalysis	D.Takimoto, S.Toma, Y.Suda, T.Shirokura, Y. Tokura, K.Fukuda, M.Matsumoto, H.Imai and W.Sugimoto	Nature Communications	6C	46
Chloride Ligands on DNA-Stabilized Silver Nanoclusters	A.González-Rosell, S.Malola, R.Guha, N.R.Arevalos, M.F.Matus, M.E.Goulet, E.Haapaniemi, B.B.Katz B.B, T.Vosch, J.Kondo, H.Häkkinen and S.M.Copp	Journal of the American Chemical Society	17A	43

※被引用数は 2025 年 7 月 Scopus 調べ

2022 年出版

論文タイトル	著者名	雑誌名	使用 BL	被引用数
Virological Characteristics of the SARS-CoV-2 Omicron BA.2 Subvariants, Including BA.4 and BA.5	I.Kimura, <i>et.al.</i> ,	Cell	17A	184
Discovery of Non-Squalene Triterpenes	H.Tao, L.Lauterbach, G.Bian, R.Chen, A.Hou, T.Mori, S.Cheng, B.Hu, L.Lu, X.Mu, M.Li, N.Adachi, M.Kawasaki, T.Moriya, T.Senda, X.Wang, Z.Deng, I.Abe, J.S.Dickschat and T.Liu	Nature	1A	109
3CL Protease Inhibitors with an Electrophilic Arylketone Moiety as Anti-SARS-CoV-2 Agents	S.Konno, K.Kobayashi, M.Senda, Y.Funai, Y.Seki, I.Tamai, L.Schäkel, K.Sakata, T.Pillaiyar, A.Taguchi, A.Taniguchi, M.Gütschow, C.E.Müller, K.Takeuchi, M.Hirohama, A.Kawaguchi, M.Kojima, T.Senda, Y.Shirasaka, W.Kamitani and Y.Hayashi	Journal of Medicinal Chemistry	17A	104
High-Entropy Intermetallics Serve Ultrastable Single-Atom Pt for Propane Dehydrogenation	Y.Nakaya, E.Hayashida, H.Asakura, S.Takakusagi, S.Yasumura, K.-I.Shimizu and S.Furukawa	Journal of the American Chemical Society	9A	101
Coexistence of Fe Nanoclusters Boosting Fe Single Atoms to Generate Singlet Oxygen for Efficient Aerobic Oxidation of Primary Amines to Imines	Z.Ma, S.Liu, N.Tang, T.Song, K.Motokura, Z.Shen and Y.Yang	ACS Catalysis	9C	98
Nanoengineering of Curved Supramolecular Polymers: Toward Single-Chain Mesoscale Materials	S.Datta, S.Takahashi and S.Yagai	Accounts of Materials Research	10C	72
Zoology of Multiple-Q Spin Textures in a Centrosymmetric Tetragonal Magnet with Itinerant Electrons	N.D.Khanh, T.Nakajima, S.Hayami, S.Gao, Y.Yamasaki, H.Sagayama, H.Nakao, R.Takagi, Y.Motome, Y.Tokura, T.-H.Arima and S.Seki	Advanced Science	3A	72
Structural Changes of Spinel MCo_2O_4 (M = Mn, Fe, Co, Ni, and Zn) Electrocatalysts during the Oxygen Evolution Reaction Investigated by in Situ X-Ray Absorption Spectroscopy	M.Harada, Kotegawa and M.Kuwa	ACS Applied Energy Materials	9C	71
Glassy Thermal Conductivity in $\text{Cs}_3\text{Bi}_2\text{I}_6\text{Cl}_3$ Single Crystal	P.Acharyya, T.Ghosh, K.Pal, K.S.Rana, M.Dutta, D.Swain, M.Etter, A.Soni, U.V.Waghmare and K.Biswas	Nature Communications	18B	65
Cooperative Catalysis of Vibrationally Excited CO_2 and Alloy Catalyst Breaks the Thermodynamic Equilibrium Limitation	D.-Y.Kim, H.Ham, X.Chen, S.Liu, H.Xu, B.Lu, S.Furukawa, H.-H.Kim, S.Takakusagi, K.Sasaki and T.Nozaki	Journal of the American Chemical Society	9A, NW10A	64

※被引用数は 2025 年 7 月 Scopus 調べ

2021 年出版

論文タイトル	著者名	雑誌名	使用 BL	被引用数
Co Single Atoms in ZrO ₂ with Inherent Oxygen Vacancies for Selective Hydrogenation of CO ₂ to CO	N.H.M.D.Dostagir, R.Rattanawan, M.Gao, J.Ota, J.-Y.Hasegawa, K.Asakura, A. Fukouka and A.Shrotri	ACS Catalysis	9C	196
Evidence for a Higher-Order Topological Insulator in a Three-Dimensional Material Built from Van Der Waals Stacking of Bismuth-Halide Chains	R.Noguchi, M.Kobayashi, Z.Jiang, K.Kuroda, T.Takahashi, Z.Xu, D.Lee, M.Hirayama, M.Ochi, T.Shirasawa, P. Zhang, C.Lin, C.Bareille, S.Sakuragi, H.Tanaka, S.Kunisada, K.Kurokawa, K.Yaji, A.Harasawa, V.Kandyba, A.Giampietri, A.Barinov, T.K.Kim, C.Cacho, M.Hashimoto, D.Lu, S.Shin, R.Arita, K.Lai, T.Sasagawa and T.Kondo	Nature Materials	3A	128
Humoral Immune Response to Circulating SARS-CoV-2 Variants Elicited by Inactivated and RBD-Subunit Vaccines	Y.Cao, A.Yisimayi, Y.Bai, W.Huang, X.Li, Z.Zhang, T.Yuan, R.An, J.Wang, T.Xiao, S. Du, W.Ma, L.Song, Y.Li, X.Li, W.Song, J.Wu, S.Liu, X.Li, Y.Zhang, B.Su, X.Guo, Y.Wei, C.Gao, N.Zhang, Y.Zhang, Y.Dou, X.Xu, R.Shi, B.Lu, R.Jin, Y.Ma, C.Qin, Y.Wang, Y. Feng, J.Xiao and X.S.Xie	Cell Research	1A	125
Multiple Energy Scales and Anisotropic Energy Gap in the Charge-Density-Wave Phase of the Kagome Superconductor CsV ₃ Sb ₅	K.Nakayama, Y.Li, T.Kato, M.Liu, Z.Wang, T.Takahashi, Y.Yao and T.Sato	Physical Review B	28A	118
Influence of Phosphorus Doping on Triazole-Based g-C ₃ N ₅ Nanosheets for Enhanced Photoelectrochemical and Photocatalytic Performance	C.Hu, Y.-H.Lin, M.Yoshida and S.Ashimura	ACS Applied Materials and Interfaces	7A,9A	118
Metavalent Bonding in GeSe Leads to High Thermoelectric Performance	D.Sarkar, S.Roychowdhury, R.Arora, T.Ghosh, A.Vasdev, B.Joseph, G.Sheet, U.V.Waghmare and K.Biswas	Angewandte Chemie - International Edition	18B	86
Dissociative and Associative Concerted Mechanism for Ammonia Synthesis over Co-Based Catalyst	T.-N.Ye, S.-W.Park, Y.Lu, J.Li, J.Wu, M.Sasase, M.Kitano and H.Hosono	Journal of the American Chemical Society	12C	82
Ammonia Decomposition over CaNH-Supported Ni Catalysts via an NH ₂ -Vacancy-Mediated Mars-van Krevelen Mechanism	K.Ogasawara, T.Nakao, K.Kishida, T.-N.Ye, Y.Lu, H.Abe, Y.Niwa, M.Sasase, M.Kitano and H.Hosono	ACS Catalysis	12C	78
Robust Charge-Density Wave Strengthened by Electron Correlations in Monolayer 1T-TaSe ₂ and 1T-NbSe ₂	Y.Nakata, K.Sugawara, A.Chainani, H.Oka, C.Bao, S.Zhou, P.-Y.Chuang, C.-M.Cheng, T.Kawakami, Y.Saruta, T.Fukumura, S.Zhou T.Takahashi and T.Sato	Nature Communications	28A, 28B	72
Impact of Mg and Ti Doping in O3 type NaNi _{1/2} Mn _{1/2} O ₂ on Reversibility and Phase Transition during Electrochemical Na Intercalation	K.Kubota, N.Fujitani, Y.Yoda, K.Kuroki, Y.Tokita and S.Komaba	Journal of Materials Chemistry A	12C	70

※被引用数は 2025 年 7 月 Scopus 調べ

2020 年出版

論文タイトル	著者名	雑誌名	使用 BL	被引用数
Nanometric Square Skyrmion Lattice in a Centrosymmetric Tetragonal Magnet	N.D.Khanh, T.Nakajima, X.Tu, S.Gao, K.Shibata, M.Hirschberger, Y.Yamasaki, H.Sagayama, H.Nakao, H., L.Peng, K.Nakajima, R.Takagi, T.Arima, Y.Tokura and S.Seki	Nature Nanotechnology	3A	275
Mechanism of Sodium Storage in Hard Carbon: An X-Ray Scattering Analysis	Y.Morikawa, S.-I.Nishimura, R.-I.Hashimoto, M.Ohnuma and A.Yamada	Advanced Energy Materials	8B	261
Mn ²⁺ Directly Activates cGAS and Structural Analysis Suggests Mn ²⁺ Induces a Noncanonical Catalytic Synthesis of 2'3'-cGAMP	Z.Zhao, Z.Ma, B.Wang, Y.Guan, X.-D.Su and Z.Jiang	Cell Reports	1A	230
Versatile Whole-Organ/Body Staining and Imaging Based on Electrolyte-Gel Properties of Biological Tissues	E. A.Susaki, C.Shimizu, A.Kuno, K.Tainaka, X.Li, K.Nishi, K.Morishima, H.Ono, K.L.Ode, Y.Saeki, K.Miyamichi, K.Isa, C.Yokoyama, H.Kitaura, M.Ikemura, T.Ushiku, Y.Shimizu, T.Saito, T.C.Saido, M.Fukayama, H.Onoe, K.Touhara, T.Isa, A.Kakita, M.Shibayama and H.R.Ueda	Nature Communications	10C	150
CH7233163 Overcomes Osimertinib-Resistant EGFR-Del19/T790M/C797S Mutation	K.Kashima, H.Kawauchi, H.Tanimura, Y.Tachibana, T.Chiba, T.Torizawa and H. Sakamoto	Molecular Cancer Therapeutics	17A	135
Intrinsically Ultralow Thermal Conductivity in Ruddlesden-Popper 2D Perovskite Cs ₂ PbI ₂ Cl ₂ : Localized Anharmonic Vibrations and Dynamic Octahedral Distortions	P.Acharyya, T.Ghosh, K.Pal, K.Kundu, K.Singh Rana, J.Pandey, A.Soni, U.V.Waghmare and K.Biswas	Journal of the American Chemical Society	18B	131
Stable Single Platinum Atoms Trapped in Sub-Nanometer Cavities in 12CaO·7Al ₂ O ₃ for Chemoselective Hydrogenation of Nitroarenes	T.-N.Ye, Z.Xiao, J.Li, Y.Gong, H.Abe, Y.Niwa, M.Sasase, M.Kitano and H.Hosono	Nature Communications	12C	129
Sulfur-Doped g-C ₃ N ₄ Nanosheets for Photocatalysis: Z-scheme Water Splitting and Decreased Biofouling	Y.-R.Lin, G.V.C. Dizon, K.Yamada, C.-Y.Liu, A.Venault, H.-Y.Lin, M.Yoshida and C.Hu	Journal of Colloid and Interface Science	9A	120
Radial Spin Texture in Elemental Tellurium with Chiral Crystal Structure	M.Sakano, M.Hirayama T.Takahashi, S.Akebi, M.Nakayama, K.Kuroda, K.Taguchi, T.Yoshikawa, K.Miyamoto T.Okuda, K.Ono, H.Kumigashira, T.Ideue, Y.Iwasa, N.Mitsuishi, K.shizaka, S.Shin, T.Miyake, S.Murakami T.Sasagawa and T.Kondo.	Physical Review Letters	28A, 28B	117
Single-Atom Catalysts Supported by Crystalline Porous Materials: Views from the Inside	T.Zhang, Z.Chen, A.G.Walsh, Y.Li and P.Zhang	Advanced Materials	9C	113

※被引用数は 2025 年 7 月 Scopus 調べ

2019 年出版

論文タイトル	著者名	雑誌名	使用 BL	被引用数
Skyrmion Lattice with a Giant Topological Hall Effect in a Frustrated Triangular-Lattice Magnet	T.Kurumaji, T.Nakajima, M.Hirschberger, A.Kikkawa, Y.Yamasaki, H.Sagayama, H.Nakao, Y.Taguchi, T.-H.Arima and Y. Tokura	Science	3A	558
Atg2 Mediates Direct Lipid Transfer between Membranes for Autophagosome Formation	T.Osawa, T.Kotani, T.Kawaoka, E.Hirata, K.Suzuki, H.Nakatogawa, Y.Ohsumi and N.N.Noda	Nature Structural & Molecular Biology	1A,17A	334
Skyrmion Phase and Competing Magnetic Orders on a Breathing Kagomé Lattice	M.Hirschberger, T.Nakajima, S.Gao, L.Peng, A.Kikkawa, T.Kurumaji, M.Kriener, Y.Yamasaki, H.Sagayama, H.Nakao and K.Ohishi	Nature Communications	3A	293
Observation of Chiral Fermions with a Large Topological Charge and Associated Fermi-Arc Surface States in CoSi	D.Takane, Z.Wang, S.Souma, K.Nakayama, T.Nakamura, H.Oinuma, Y.Nakata, H.Iwasawa, C.Cacho, T.Kim, K.Horiba, H. Kumigashira, T.Takahashi, Y.Ando and T.Sato	Physical Review Letters	2A	256
Natural Van Der Waals Heterostructural Single Crystals with both Magnetic and Topological Properties	J.Wu, F.Liu, M.Sasase, K.Ienaga, Y.Obata, R.Yukawa, K.Horiba, H.Kumigashira, S.Okuma, T.Inoshita and H.Hosono	Science Advances	2A	227
An Al-Doped SrTiO ₃ Photocatalyst Maintaining Sunlight-Driven Overall Water Splitting Activity for over 1000 h of Constant Illumination	H.Lyu, T.Hisatomi, Y.Goto, M.Yoshida, T.Higashi, M.Katayama, T.Takata, T.Minegishi, H.Nishiyama, T.Yamada, Y. Sakata, K.Asakura and K.Domen	Chemical Science	NW10A	207
Structural Basis for Blue-Green Light Harvesting and Energy Dissipation in Diatoms	W.Wang, L.-J.Yu, C.Xu, T.Tomizaki, S.Zhao, Y.Umena, X.Chen, X.Qin, Y.Xin, M.Suga, G.Han, T.Kuang and J.-R. Shen	Science	1A	199
Boosting Electrochemical Water Splitting: via Ternary NiMoCo Hybrid nanowire Arrays	K.Hu, M.Wu, S.Hinokuma, T.Ohto, M.Wakisaka, J.-I.Fujita and Y.Ito	Journal of Materials Chemistry A	9C	199
Low-Temperature Synthesis of Perovskite Oxynitride-Hydrides as Ammonia Synthesis Catalysts	M.Kitano, J.Kujirai, K.Ogasawara, S.Matsuishi, T.Tada, H.Abe, Y.Niwa and H.Hosono	Journal of the American Chemical Society	NW10A	153
Negative Dielectric Constant of Water Confined in Nanosheets	A.Sugahara, Y.Ando, S.Kajiyama, K.Yazawa, K.Gotoh, M.Otani, M.Okubo and A.Yamada	Nature Communications	9C	148

※被引用数は 2025 年 7 月 Scopus 調べ

2018 年出版

論文タイトル	著者名	雑誌名	使用 BL	被引用数
MXene as a Charge Storage Host	M.Okubo, A.Sugahara, S.Kajiyama and A.Yamada	Accounts of Chemical Research	9C	391
Ternary Intermetallic LaCoSi as a Catalyst for N ₂ Activation	Y.Gong, J.Wu, M.Kitano, J.Wang, T.-N. Ye, J.Li, Y.Kobayashi, K.Kishida, H.Abe, Y.Niwa, H.Yang, T.Tada and H.Hosono	Nature Catalysis	12C	249
The Smart Surface Modification of Fe ₂ O ₃ by WO _x for Significantly Promoting the Selective Catalytic Reduction of NO _x with NH ₃	F.Liu, W.Shan, Z.Lian, J.Liu and H.He	Applied Catalysis B-Environmental	9C, 12C, NW10A	215
Scaling Up Electronic Spin Qubits into a Three-Dimensional Metal-Organic Framework	T.Yamabayashi, M.Atzori, L.Tesi, G.Cosquer, F.Santanni, M.-E.Boulon, E.Morra, S.Benci, R.Torre, M.Chiesa, L.Sorace, R.Sessoli and M.Yamashita	Journal of the American Chemical Society (J. Am. Chem. Soc.)	NW2A	155
Dynamic Ionic Crosslinks Enable High Strength and Ultrastretchability in a Single Elastomer	Y.Miwa, J.Kurachi, Y.Kohbara and S.Kutsumizu	Communications Chemistry	6A	145
Structure of Photosynthetic LH1-RC Supercomplex at 1.9 Å Resolution	L.J.Yu, M.Suga, Z.Y.Wang-Otomo and J.R.Shen	Nature	1A	133
Optically Transparent, High-Toughness Elastomer using a Polyrotaxane Cross-Linker as a Molecular Pulley	H.Gotoh, C.Liu, A.B.Imran, M.Hara, T.Seki, K.Mayumi, K.Ito and Y.Takeoka	Science Advances	6A	133
Structural Analyses of Toll-like Receptor 7 Reveal Detailed RNA Sequence Specificity and Recognition Mechanism of Agonistic Ligands	Z.Zhang, U.Ohto, T.Shibata, M.Taoka, Y.Yamauchi, R.Sato, N.M.Shukla, S.A.David, T.Isobe, K.Miyake and T.Shimizu	Cell Reports	NE3A,5A	122
Structural Basis for Amino Acid Transport by the CAT Family of SLC7 Transporters	K.E.J.Jungnickel, J.L.Parker and S.Newstead	Nature Communications	1A	113
Toll-like Receptor 9 Contains Two DNA Binding Sites that Function Cooperatively to Promote Receptor Dimerization and Activation	U.Ohto, H. Ishida, T.Shibata, R.Sato, K.Miyake and T.Shimizu	Immunity	NE3A	110

※被引用数は 2025 年 7 月 Scopus 調べ

2017 年出版

論文タイトル	著者名	雑誌名	使用 BL	被引用数
Evidence for Magnetic Weyl Fermions in a Correlated Metal	K.Kuroda, T.Tomita, M.T.Suzuki, C.Bareille, A.A.Nugroho, P.Goswami, M.Ochi, M.Ikhlal, M.Nakayama, S.Akebi, R.Noguchi, R.Ishii, N. Inami, K.Ono, H.Kumigashira, A.Varykhalov, T.Muro, T.Koretsune, R.Arita, S.Shin, T.Kondo and S.Nakatsuji	Nature Materials	28A,28B	537
Dirac Fermions in Borophene	B.Feng, O.Sugino, R.-Y.Liu, J.Zhang, R.Yukawa, M.Kawamura, T.Iimori, H.Kim, Y.Hasegawa, H.Li, L.Chen, K.Wu, H.Kumigashira, F.Komori, T.-C.Chiang, S.Meng and I.Matsuda	Physical Review Letters	2A,2B	423
Enhanced Li-Ion Accessibility in MXene Titanium Carbide by Steric Chloride Termination	S.Kajiyama, L.Szabova, H.Iinuma, A.Sugahara, K.Gotoh, K.Sodeyama, Y.Tateyama, M.Okubo and A.Yamada	Advanced Energy Materials	9C	275
Phosphorylation of the Mitochondrial Autophagy Receptor Nix Enhances its Interaction with LC3 Proteins	V.V.Rogov, H.Suzuki, M.Marinković, V.Lang, R.Kato, M.Kawasaki, M.Buljubašić, M.Šprung, N.Rogova, S.Wakatsuki, A.Hamacher-Brady, V.Dötsch, I.Dikic, N.R.Brady and I.Novak	Scientific Reports	NW12A	241
A Metallo-DNA Nanowire with Uninterrupted One-Dimensional Silver Array	J.Kondo, Y.Tada, T.Dairaku, Y.Hattori, H.Saneyoshi, A.Ono and Y.Tanaka	Nature Chemistry	5A, 1A	187
Platinum Clusters with Precise Numbers of Atoms for Preparative-Scale Catalysis	T.Imaoka, Y.Akanuma, N.Haruta, S.Tsuchiya, K.Ishihara, T.Okayasu, W.-J.Chun, M.Takahashi and K.Yamamoto	Nature Communications	12C, 9A	153
Structure of the Complete Elongation Complex of RNA Polymerase II with Basal Factors	H.Ehara, T.Yokoyama, H.Shigematsu, S.Yokoyama, M.Shirouzu and S.I.Sekine	Science	NE3A	152
P'2-Na _{2/3} Mn _{0.9} Me _{0.1} O ₂ (Me = Mg, Ti, Co, Ni, Cu, and Zn): Correlation between Orthorhombic Distortion and Electrochemical Property	S.Kumakura, Y.Tahara, S.Sato, K.Kubota and S.Komaba	Chemistry of Materials	9C	146
Structure of the Dnmt1 Reader Module Complexed with a Unique Two-Mono-Ubiquitin Mark on Histone H3 Reveals the Basis for DNA Methylation Maintenance.	S.Ishiyama, A.Nishiyama, Y.Saeki, K.Moritsugu, D.Morimoto, L.Yamaguchi N.Arai, R.Matsumura T.Kawakami, Y.Mishima, H.Hojo, S.Shimamura, F.Ishikawa, S.Tajima, K.Tanaka, M.Ariyoshi, M.Shirakawa, M.Ikeguchi, A.Kidera, I.Suetake, K.Arita and M.Nakanishi	Molecular Cell	17A	135
Enhanced Layered-Herringbone Packing due to Long Alkyl Chain Substitution in Solution-Processable Organic Semiconductors	H.Minemawari, M.Tanaka, S.Tsuzuki, S.Inoue, T.Yamada, R.Kumai, Y.Shimoi and T.Hasegawa	Chemistry of Materials	8A,8B	133

※被引用数は 2025 年 7 月 Scopus 調べ

2016 年出版

論文タイトル	著者名	雑誌名	使用 BL	被引用数
Self-Assembly of Tetravalent Goldberg Polyhedra from 144 Small Components	D.Fujita, Y.Ueda, S.Sato, N.Mizuno, T.Kumasaka and M.Fujita	Nature	1A	527
Sodium-Ion Intercalation Mechanism in MXene Nanosheets	S.Kajiyama, L.Szabova, K.Sodeyama, H.Iinuma, R.Morita, K.Gotoh, Y.Tateyama, M.Okubo and A.Yamada	ACS Nano	9C	522
DWARF14 is a Non-Canonical Hormone Receptor for Strigolactone	R.Yao, Z.Ming, L.Yan, S.Li, F.Wang, S.Ma, C.Yu, M.Yang, L.Chen, L.Chen, Y.Li, C.Yan, D.Miao, Z.Sun, J.Yan, Y.Sun, L.Wang, J.Chu, S.Fan, W.He, H.Deng, F.Nan, J.Li, Z.Rao, Z.Lou and D.Xie	Nature	NE3A	428
Origin of Stabilization and Destabilization in Solid-State Redox Reaction of Oxide Ions for Lithium-Ion Batteries	N.Yabuuchi, M.Nakayama, M.Takeuchi, S.Komaba, Y.Hashimoto, T.Mukai, H.Shiiba, K.Sato, Y.Kobayashi, A.Nakao, M.Yonemura, K.Yamanaka, K.Mitsuhara and T.Ohta	Nature Communications	12C	374
Structural Analysis Reveals that Toll-Like Receptor 7 is a Dual Receptor for Guanosine and Single-Stranded RNA	Z.Zhang, U.Ohto, T.Shibata, E.Krayukhina, M.Taoka, Y.Yamauchi, H.Tanji, T.Isobe, S.Uchiyama, K.Miyake and T.Shimizu	Immunity	NE3A	345
Self-Assembly of $M_{30}L_{60}$ Icosidodecahedron	D.Fujita, Y.Ueda, S.Sato, H.Yokoyama, N.Mizuno, T.Kumasaka and M.Fujita	Chem	1A	257
Intermediate Honeycomb Ordering to Trigger Oxygen Redox Chemistry in Layered Battery Electrode	B.M.de Boisse, G.Liu, J.Ma, S.Nishimura, S.Chung, H.Kiuchi, Y.Harada, J.Kikkawa, Y.Kobayashi, M.Okubo and A.Yamada	Nature Communications	8B	255
SARS-CoV 3CL Protease Cleaves its C-Terminal Autoprocessing Site by Novel Subsite Cooperativity	T.Muramatsu, C.Takemoto, Y.-T.Kim, H.Wang, W.Nishii, T.Terada, M.Shirouzu and S.Yokoyama	Proceedings of the National Academy of Sciences of the United States of America	NW 12 A, 5A	208
Quantum Hall Effect in a Bulk Antiferromagnet EuMnBi_2 with Magnetically Confined Two-Dimensional Dirac Fermions	H.Masuda, H.Sakai, M.Tokunaga, Y.Yamasaki, A.Miyake, J.Shiogai, S.Nakamura, S.Awaji, A.Tsukazaki, H.Nakao, Y.Murakami, T.-H.Arima, Y.Tokura and S.Ishiwata	Science Advances	3A	193
Synthesis of Highly Coke Resistant Ni Nanoparticles Supported MgO/ZnO Catalyst for Reforming of Methane with Carbon Dioxide	R.K.Singha, A.Yadav, A.Agrawal, A.Shukla, S.Adak, T.Sasaki and R.Bal	Applied Catalysis B: Environmental	7C, 9C	162

※被引用数は 2025 年 7 月 Scopus 調べ

2015 年出版

論文タイトル	著者名	雑誌名	使用 BL	被引用数
PLEKHM1 Regulates Autophagosome-Lysosome Fusion through HOPS Complex and LC3/GABARAP Proteins	D.G.McEwan, D.Popovic, A.Gubas, S.Terawaki, H.Suzuki, D.Stadel, F.P.Coxon, D.MirandadeStegmann, S.Bhogaraju, K.Maddi, A.Kirchof, E.Gatti, M.H.Helfrich, S.Wakatsuki, C.Behrends, P.Pierre and I.Dikic	Molecular Cell	5A	450
High-Capacity Electrode Materials for Rechargeable Lithium Batteries: Li_3NbO_4 -Based System with Cation-Disordered Rocksalt Structure	N.Yabuuchi, M.Takeuchi, M.Nakayama, H.Shiiiba, M.Ogawa, K.Nakayama, T.Ohta, D.Endo, T.Ozaki, T.Inamasu, K.Sato and S.Komaba	Proceedings of the National Academy of Science, USA	9C	444
Toll-Like Receptor 8 Senses Degradation Products of Single-Stranded RNA	H.Tanji, U.Ohto, T.Shibata, M.Taoka, Y.Yamauchi, T.Isobe, K.Miyake and T.Shimizu	Nature Structural & Molecular Biology	5A, NE3A	318
Structural Basis of CpG and Inhibitory DNA Recognition by Toll-Like Receptor 9	U.Ohto, T.Shibata, H.Tanji, H.Ishida, E.Krayukhina, S.Uchiyama, K.Miyake and T.Shimizu	Nature	17A, NE3A	315
Use of Synchrotron Radiation-Analytical Techniques to Reveal Chemical Origin of Silver-Nanoparticle Cytotoxicity	L.Wang, T.Zhang, P.Li, W.Huang, J.Tang, P.Wang, J.Liu, Q.Yuan, R.Bai, B.Li, K.Zhang, Y.Zhao and C.Chen	ACS Nano	NW10A	264
High-Temperature Superconductivity in Potassium-Coated Multilayer FeSe Thin Films	Y.Miyata, K.Nakayama, K.Sugawara, T.Sato and T.Takahashi	Nature Materials	28A,28B	258
Direct Observation of Bond Formation in Solution with Femtosecond X-Ray Scattering	K.Kim, J.Kim, S.Nozaawa, T.Sato, K.Oang, T.Kim, H.Ki, J.Jo, S.Park, C.Song, T.Sato, K.Ogawa, T.Togashi, K.Tono, M.Yabashi, T.Ishikawa, J.Kim, R.Ryoo, J.Kim, H.Ihee and S.Adachi	Nature	NW14A	228
Structural and Mechanistic Basis of PAM-Dependent Spacer Acquisition in CRISPR-Cas Systems	J.Wang, J.Li, H.Zhao, G.Sheng, M.Wang, M.Yin and Y.Wang	Cell	1A, 17A, NW12A	217
New Insight into Structural Evolution in Layered NaCrO_2 during Electrochemical Sodium Extraction	K.Kubota, I.Ikeuchi, T.Nakayama, C.Takei, N.Yabuuchi, H.Shiiiba, M.Nakayama and S.Komaba	Journal of Physical Chemistry C	9C	187
Structural Basis for Self-Assembly of a Cytolytic Pore Lined by Protein and Lipid	K.Tanaka, J.M.M.Caaveiro, K.Morante, J.M.González-Manãs and K.Tsumoto	Nature Communications	5A, NW12A, NE3A	186

※被引用数は 2025 年 7 月 Scopus 調べ