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 2023 年 6 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 ～ 2022 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	**4002**
Atomic Structure and Chemistry of Human Serum Albumin	X.M.He and D.C.Carter	Nature	1992	14A	**3509**
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	**2406**
Structure at 2.8 Å Resolution of Cytochrome c Oxidase from *Paracoccus denitrificans*	S.Iwata, C.Ostermeier, B.Ludwig and H.Michel	Nature	1995	6A	**1987**
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	**1937**
P2-Type $Na_x[Fe_{1/2}Mn_{1/2}]O_2$ 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	**1753**
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.lemura, T.Natsume, T.Ueno, E.Kominami, H.Motohashi, K.Tanaka and M.Yamamoto	Nature Cell Biology	2010	NW12A	**1666**
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	**1541**
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	**1499**
Experimental Evidence for Epitaxial Silicene on Diboride Thin Films	A.Fleurence, R.Friedlein, T.Ozaki, H.Kawai, Y.Wang, Y.Yamada-Takamura	Physical Review Letters	2012	18A	**1400**

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A 3.8-V Earth-Abundant Sodium Battery Electrode	P.Barpanda, G.Oyama, S.-L.Nishimura, S.-C.Chung and A.Yamada	Nature Communi-cations	2014	3A, 4B2	**599**
Recent Advances in the Photocatalytic Conversion of Carbon Dioxide to Fuels with Water and/or Hydrogen using Solar Energy and Beyond	Y.Izumi	Coordination Chemistry Reviews	2013	7C，9A，9C，12C，NW10A	**543**
Molecular Basis of Binding between Novel Human Coronavirus MERS-CoV and its Receptor CD26	G.Lu, Y.Hu, Q.Wang, J.Qi, F.Gao, Y.Li, Y.Zhang, W.Zhang, Y.Yuan, J.Bao, B.Zhang, Y.Shi, J.Yan and G.F.Gao	Nature	2013	NE3A	**530**
Ultrathin Rhodium Nanosheets	H.Duan, N.Yan, R.Yu, C.-R.Chang, G.Zhou, H.-S.Hu, H.Rong, Z.Niu, J.Mao, H.Asakura, T.Tanaka, P.J.Dyson, J.Li and Y.Li	Nature Communications	2014	NW10A	**392**
Self-Assembly of Tetravalent Goldberg Polyhedra from 144 Small Components	D.Fujita, Y.Ueda, S.Sato, N.Mizuno, T.Kumasaka, M.Fujita	Nature	2016	1A	**391**
A Series of NiM(M = Ru, Rh, and Pd) Bimetallic Catalysts for Effective Lignin Hydrogenolysis in Water	J.Zhang, J.Teo, X.Chen, H.Asakura, T.Tanaka, K.Teramura and N.Yan	ACS Catalysis	2014	NW10A	**388**
Sodium-Ion Intercalation Mechanism in MXene Nanosheets	S.Kajiyama, L.Szabova, K.Sodeyama, H.Iinuma, R.Morita, K.Gotoh, Y.Tateyama, M.Okubo, A.Yamada	ACS Nano	2016	9C	**374**
Extremely Stretchable Thermosensitive Hydrogels by Introducing Slide-Ring Polyrotaxane Cross-Linkers and Ionic Groups into the Polymer Network	A. Bin Imran, K.Esaki, H.Gotoh, T.Seki, K.Ito, Y.Sakai, Y.Takeoka	Nature Communication	2014	15A, 10C, 6A	**374**
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.Ikhlas, 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, S.Nakatsuji	Nature Materials	2017	28A,28B	**368**
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.Shiiba, M.Ogawa, K.Nakayama, T.Ohta, D.Endo, T.Ozaki, T.Inamasu, K.Sato, S.Komaba	Proceedings of the National Academy of Sciences of the United States of America	2015	9C	**349**

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Virological Characteristics of the SARS-CoV-2 Omicron BA.2 Subvariants, Including BA.4 and BA.5	I.Kimura, D.Yamasoba, T.Tamura ,N.Nao, T.Suzuki, Y.Oda, S.Mitoma, J.Ito, H.Nasser, J.Zahradnik, K.Uriu, S.Fujita, Y.Kosugi, L.Wang, M.Tsuda, M.Kishimoto, H.Ito, R.Suzuki, R.Shimizu, M.M.Begum, K.Yoshimatsu, K.T.Kimura, J.Sasaki, K.Sasaki-Tabata, Y.Yamamoto, T.Nagamoto, J.Kanamune, K.Kobiyama, H.Asakura, M.Nagashima, K.Sadamasu, K.Yoshimura, K.Shirakawa, A.Takaori-Kondo, J.Kuramochi, G.Schreiber, K.J.Ishii, T.Hashiguchi, T.Ikeda, A.Saito, T.Fukuhara, S.Tanaka, K.Matsuno, K.Sato	Cell	17A	51
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, T.Liu	Nature	1A	31
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, S.Seki	Advanced Science	3A	29
Nanoengineering of Curved Supramolecular Polymers: Toward Single-Chain Mesoscale Materials	S.Datta, S.Takahashi, S.Yagai	Accounts of Materials Research	10C	26
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, Y.Yang	ACS Catalysis	9C	22
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, M.Kuwa	ACS Applied Energy Materials	9C	18
Carrier Injection and Manipulation of Charge-Density Wave in Kagome Superconductor	K.Nakayama, Y.Li, T.Kato, M.Liu, Z.Wang, T.Takahashi, Y.Yao, T.Sato	Physical Review X	28A,28B	18
Atomic-Scale Imaging and Nano-Scale Mapping of Cubic α-$CsPbI_3$Perovskite Nanocrystals for Inverted Perovskite Solar Cells	S.Mahato, A.Ghorai, A.Mondal, S.K.Srivastava, M.Modak, S.Das, S.K.Ray	ACS Applied Materials and Interfaces	18B	15
Accelerated Ionic and Charge Transfer through Atomic Interfacial Electric Fields for Superior Sodium Storage	X.Lu, Y.Shi, D.Tang, X.Lu, Z.Wang, N.Sakai, Y.Ebina, T.Taniguchi, R.Ma, T.Sasaki, C.Yan	ACS Nano	6C	14

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Multiple Energy Scales and Anisotropic Energy Gap in the Charge-Density-Wave Phase of the Kagome Superconductor CsV_3Sb_5	K.Nakayama, Y.Li, T.Kato, M.Liu, Z.Wang, T.Takahashi, Y.Yao and T.Sato	Physical Review B	28A	67
Evidence for a Higher-Order Topological Insulator in a Three-Dimensional Material Built from Van Der Waals Sacking 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	63
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	60
Influence of Phosphorus Doping on Triazole-Based g-C_3N_5Nanosheets for Enhanced Photoelectrochemical and Photocatalytic Performance	C.Hu, Y.-H.Lin, M.Yoshida, S.Ashimura	ACS Applied Materials and Interfaces	7A,9A	37
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	36
Ruthenium Catalysts Promoted by Lanthanide Oxyhydrides with High Hydride-Ion Mobility for Low-Temperature Ammonia Synthesis	K.Ooya, J.Li, K.Fukui, S.Iimura, T.Nakao, K.Ogasawara, M.Sasase, H.Abe, Y.Niwa, M.Kitano and H.Hosono	Advanced Energy Materials	NW10A	31
MIL-88B(Fe)-Coated Photocatalytic Membrane Reactor with Highly Stable Flux and Phenol Removal Efficiency	C.Hu, M.Yoshida, P.-H.Huang, S.Tsunekawa, L.-B.Hou, C.-H.Chen and K.-L.Tung	Chemical Engineering Journal	9A	29
Diarylethene-Powered Light-Induced Folding of Supramolecular Polymers	T.Fukushima, K.Tamaki, A.Isobe, T.Hirose, N.Shimizu, H.Takagi, R.Haruki, S.-L.Adachi, M.J.Hollamby and S.Yagai	Journal of the American Chemical Society	10C	28
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, H.Hosono	Journal of the American Chemical Society	12C	27

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Mechanism of Sodium Storage in Hard Carbon: An X-Ray Scattering Analysis	Mechanism of Sodium Storage in Hard Carbon: An X-Ray Scattering Analysis	Advanced Energy Materials	8B	94
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	85
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, Z.Jiang	Cell Reports	1A	82
Stable Single Platinum Atoms Trapped in Sub-Nanometer Cavities in $12CaO·7Al_2O_3$ 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	75
Sulfur-Doped g-C_3N_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	71
Intrinsically Ultralow Thermal Conductivity in Ruddlesden-Popper 2D Perovskite $Cs_2PbI_2Cl_2$: 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	60
Supramolecular Copolymerization Driven by Integrative Self-Sorting of Hydrogen-Bonded Rosettes	K.Aratsu, R.Takeya, B.R.Pauw, M.J.Hollamby, Y.Kitamoto, N.Shimizu, H.Takagi, R.Haruki, S.Adachi and S.Yagai	Nature Communications	10C	56
Two Distinct Modes of DNMT1 Recruitment Ensure Stable Maintenance DNA Methylation	A.Nishiyama, C.B.Mulholland, S.Bultmann, S.Kori, A.Endo, Y.Saeki, W.Qin, C.Trummer, Y.Chiba, H.Yokoyama, S.Kumamoto, T.Kawakami, H.Hojo, G.Nagae, H.Aburatani, K.Tanaka, K.Arita, H.Leonhardt and M.Nakanishi	Nature Communications	17A,10C	55
Polar Recruitment of RLD by LAZY1-like Protein During Gravity Signaling in Root Branch Angle Control	M.Furutani, Y.Hirano, T.Nishimura, M.Nakamura, M.Taniguchi, K.Suzuki, R.Oshida, C.Kondo, S.Sun, K.Kato, Y.Fukao, T.Hakoshima and M.T.Morita	Nature Communications	1A	52

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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	206
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	166
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	166
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	159
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	121
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	112
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	111
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 Communi-cations	9C	92
A Weak Topological Insulator State in Quasi-One-Dimensional Bismuth Iodide	R.Noguchi, T.Takahashi, K.Kuroda, M.Ochi, T.Shirasawa, M.Sakano, C.Bareille, M.Nakayama, M.D.Watson, K.Yaji, A.Harasawa, H.Iwasawa, P.Dudin, T.K.Kim, M.Hoesch, V.Kandyba, A.Giampietri, A.Barinov, S.Shin, R.Arita, T.Sasagawa and T.Kondo	Nature	18B	88

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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	174
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Dynamic Ionic Crosslinks Enable High Strength and Ultrastretchability in a Single Elastomer	Y.Miwa, J.Kurachi, Y.Kohbara and S.Kutsumizu	Communications Chemistry	6A	100
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	86
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	83
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, Y.Takeoka	Science Advances	6A	78
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	77
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	76
Small-Molecule Inhibition of TLR8 through Stabilization of its Resting State	S.Zhang, Z.Hu, H.Tanji, S.Jiang, N.Das, J.Li, K.Sakaniwa, J.Jin, Y.Bian, U.Ohto, T.Shimizu and H.Yin	Nature Chem. Biol.	NE3A, 5A	73

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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	173
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