

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（19500 報）について、Scopus を元に 2021 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（1983～2020 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	3622
Atomic Structure and Chemistry of Human Serum Albumin	X.M.He and D.C.Carter	Nature	1992	14A	3253
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	2303
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	1931
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	1833
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	1489
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	1396
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	1319
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	1289
Crystal Structure of Spinach Major Light-Harvesting Complex at 2.72 Å Resolution	Z.Liu, H.Yan, K.Wang, T.Kuang, J.Zhang, L.Gui, X.An and W.Chang	Nature	2004	6B, 6C	1262

※被引用数は 2021 年 6 月 Scopus 調べ

直近 10 年の被引用数 Top10 (2011 ~ 2020 年)

論文タイトル	著者名	雑誌名	発行年	使用 BL	被引用数
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	1489
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	1289
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	1236
Detailed Studies of a High-Capacity Electrode Material for Rechargeable Batteries, Li_2MnO_3 - $\text{LiCo}_{1/3}\text{Ni}_{1/3}\text{Mn}_{1/3}\text{O}_2$	N.Yabuuchi, K.Yoshii, S.Myung, I.Nakai and S.Komaba	Journal of the American Chemical Society	2011	12C	914
Experimental Realization of a Topological Crystalline Insulator in SnTe	Y.Tanaka, Z.Ren, T.Sato, K.Nakayama, S.Souma, T.Takahashi, K.Segawa and Y.Ando	Nature Materials	2012	28A	601
Giant Rashba-type Spin Splitting in Bulk BiTeI	K.Ishizaka, M.S.Bahramy, H.Murakawa, M.Sakano, T.Shimajima, T.Sonobe, K.Koizumi, S.Shin, H.Miyahara, A.Kimura, K.Miyamoto, T.Okuda, H.Namatame, M.Taniguchi, R.Arita, N.Nagaosa, K.Kobayashi, Y.Murakami, R.Kumai, Y.Kaneko, Y.Onose and Y. Tokura	Nature Materials	2011	8A	537
A 3.8-V Earth-Abundant Sodium Battery Electrode	P.Barpanda, G.Oyama, S.-L.Nishimura, S.-C.Chung and A.Yamada	Nature Communications	2014	3A, 4B2	509
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	473
Alkali-Metal-Promoted Pt/TiO ₂ Opens a More Efficient Pathway to Formaldehyde Oxidation at Ambient Temperatures	C.Zhang, F.Liu, Y.Zhai, H.Ariga, N.Yi, Y.Liu, K.Asakura, M.Flytzani-Stephanopoulos and H.He	Angewandte Chemie-International Edition	2012	7C, 12C	441
Study on the Reversible Electrode Reaction of $\text{Na}_{1-x}\text{Ni}_{0.5}\text{Mn}_{0.5}\text{O}_2$ for a Rechargeable Sodium-Ion Battery	S.Komaba, N.Yabuuchi, T.Nakayama, A.Ogata, T.Ishikawa and I.Nakai	Inorganic Chemistry	2012	12C	421

※被引用数は 2021 年 6 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	34
Stable Single Platinum Atoms Trapped in Sub-Nanometer Cavities in $12\text{CaO}\cdot 7\text{Al}_2\text{O}_3$ 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	24
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	23
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	21
Sulfur-doped $g\text{-C}_3\text{N}_4$ 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	20
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	19
Mechanism of Sodium Storage in Hard Carbon: An X-Ray Scattering Analysis	Y.Morikawa, S.Nishimura, R.Hashimoto, M. Ohnuma and A.Yamada	Advanced Energy Materials	8B	18
Isoform-Selective Regulation of Mammalian Cryptochromes	S.Miller, Y.L.Son, Y.Aikawa, E.Makino, Y.Nagai, A.Srivastava, T.Oshima, A.Sugiyama, A.Hara, K.Abe, K.Hirata, S.Oishi, S.Hagihara, A.Sato, F.Tama, K.Itami, S.A.Kay, M.Hatori and T.Hirota	Nature Chemical Biology	17A	18
Recent Progress in Molecularly Imprinted Approach for Catalysis	S.Muratsugu, S.Shirai and M.Tada	Tetrahedron Letters	NW10A	17
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	16

※被引用数は 2021 年 6 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	109
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	99
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	87
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	71
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	53
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	47
Cell-Based Screen Identifies a New Potent and Highly Selective CK2 Inhibitor for Modulation of Circadian Rhythms and Cancer Cell Growth	T.Oshima, Y.Niwa, K.Kuwata, A.Srivastava, T.Hyoda, Y.Tsuchiya, M.Kumagai, M.Tsuyuguchi, T.Tamaru, A.Sugiyama, N.Ono, N.Zolboot, Y.Aikawa, S.Oishi, A.Nonami, F.Arai, S.Hagihara, J.Yamaguchi, F.Tama, Y.Kunisaki, K.Yagita, M.Ikeda, T.Kinoshita, S.A.Kay, K.Itami and T.Hirota	Science Advances	17A	45
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	45
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	42
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	39

※被引用数は 2021 年 6 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	132
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	99
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	87
Dynamic Ionic Crosslinks Enable High Strength and Ultrastretchability in a Single Elastomer	Y.Miwa, J.Kurachi, Y.Kohbara and S.Kutsumizu	Communications Chemistry	6A	52
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	47
Soft Phonon Modes Leading to Ultralow Thermal Conductivity and High Thermoelectric Performance in AgCuTe	S.Roychowdhury, M.K.Jana, J.Pan, S.N.Guin, D.Sanyal, U.V.Waghmare and K.Biswas	Angewandte Chemie-International Edition	18B	45
Adsorbate-Driven Reactive Interfacial Pt-NiO _{1-x} Nanostructure Formation on the Pt ₃ Ni(111) Alloy Surface	J.Kim, W.H.Park, W.H.Doh, S.W.Lee, M.C.Noh, J-J.Gallet, F.Bournel, H.Kondoh, K.Mase, Y.Jung, B.S.Mun and J.Y.Park	Science Advances	13A	43
Semiconductive Single Molecular Bilayers Realized Using Geometrical Frustration	S.Arai, S.Inoue, T.Hamai, R.Kumai and T.Hasegawa	Advanced Materials	7C, 8B, 8A	43
Observation of Dirac-like Energy Band and Ring-Torus Fermi Surface Associated with the Nodal Line in Topological Insulator CaAgAs	D.Takane, K.Nakayama, S.Souma, T.Wada, Y.Okamoto, K.Takenaka, Y.Yamakawa, A.Yamakage, T.Mitsuhashi, K.Horiba, H.Kumigashira, T.Takahashi and T.Sato	npj Quantum Materials	28A, 28B, 2A, 2B	42
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	42

※被引用数は 2021 年 6 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
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	208
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	180
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	104
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	88
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	81
A New ²⁸ Si Single Crystal: Counting the Atoms for the New Kilogram Definition	G.Bartl, P.Becker, B.Beckhoff, H.Bettin, E.Beyer, M.Borys, I.Busch, L.Cibik, G.D'Agostino, E.Darlatt, M.Di Luzio, K.Fujii, H.Fujimoto, K.Fujita, M.Kolbe, M.Krumrey, N.Kuramoto, E.Massa, M.Mecke, S.Mizushima, M.Müller, T.Narukawa, A.Nicolaus, A.Pramann, D.Rauch, O.Rienitz, C.P.Sasso, A.Stopic, R.Stosch, A.Waseda, S.Wundrack, L.Zhang and X.W.Zhang	Metrologia	3C	76
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	74
Structure of Full-Length SMC and Rearrangements Required for Chromosome Organization	M.-L.Diebold-Durand, H.Lee, L.B.Ruiz Avila, H.Noh, H.H.-C.Shin, H.Im, F.P.Bock, F.Bürmann, A.Durand, A.Basfeld, S.Ham, J.Basquin, B.-H.Oh and S.Gruber	Molecular Cell	5A	68
P'2-Na ₂₃ 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	66
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	63

※被引用数は 2021 年 6 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	282
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	245
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	206
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	12C	193
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	144
Self-Assembly of $M_{30}L_{60}$ Icosidodecahedron	D.Fujita, Y.Ueda, S.Sato, H.Yokoyama, N.Mizuno, T.Kumasaka, M.Fujita	Chem	1A	141
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, A.Yamada	Nature Communications	8B	110
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	91
Dirac-Node Arc in the Topological Line-Node Semimetal HfSiS	D.Takane, Z.Wang, S.Souma, K.Nakayama, C.X.Trang, T.Sato, T.Takahashi and Y.Ando	Physical Review B	28A, 28B	90
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	87

※被引用数は 2021 年 6 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
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.Shibata, 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	259
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	257
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	193
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	189
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	159
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	153
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	138
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	129
Improved Measurement Results for the Avogadro Constant using a ^{28}Si -Enriched Crystal	Y.Azuma, P.Barat, G.Bartl, H.Bettin, M.Borys, I.Busch, L.Cibik, G.DAgostino, K.Fujii, H.Fujimoto, A.Hioki, M.Krumrey, U.Kuetgens, N.Kuramoto, G.Mana, E.Massa, R.Meeß, S.Mizushima, T.Narukawa, A.Nicolaus, A.Pramann, S.A.Rabb, O.Rienitz, C.Sasso, M.Stock, R.D.Vocke.Jr, A.Waseda, S.Wundrack and S.Zakel	Metrologia	3C	126
Pressure-Induced Superconductivity in the Iron-Based Ladder Material BaFe_2S_3	H.Takahashi, A.Sugimoto, Y.Nambu, T.Yamauchi, Y.Hirata, T.Kawakami, M.Avdeev, K.Matsubayashi, F.Du, C.Kawashima, H.Soeda, S.Nakano, Y.Uwatoko, Y.Ueda, T.J.Sato and K.Ohgushi	Nature Materials	18C	118

※被引用数は 2021 年 6 月 Scopus 調べ

2014 年出版

論文タイトル	著者名	雑誌名	使用 BL	被引用数
A 3.8-V Earth-Abundant Sodium Battery Electrode	P.Barpanda, G.Oyama, S.Nishimura, S.-C. Chung and A.Yamada	Nature Communications	3A, 4B2	509
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	NW10A	315
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	NW10A	305
Valley-Dependent Spin Polarization in Bulk MoS ₂ with Broken Inversion Symmetry	R.Suzuki, M.Sakano, Y.J.Zhang, R.Akashi, D.Morikawa, A.Harasawa, K.Yaji, K.Kuroda, K.Miyamoto, T.Okuda, K.Ishizaka, R.Arita and Y.Iwasa	Nature Nanotechnology	19A	275
Extremely Stretchable Thermosensitive Hydrogels by Introducing Slide-Ring Polyrotaxane Cross-Linkers and Ionic Groups into the Polymer Network	A.B.Imran, K.Esaki, H.Gotoh, T.Seki, K.Ito, Y.Sakai and Y.Takeoka	Nature Communications	15A, 10C, 6A	266
Reconstruction of Band Structure Induced by Electronic Nematicity in an FeSe Superconductor	K.Nakayama, Y.Miyata, G.N.Phan, T.Sato, Y.Tanabe, T.Urata, K.Tanigaki and T.Takahashi	Physical Review Letters	28A	201
Highly Efficient, NiAu-Catalyzed Hydrogenolysis of Lignin into Phenolic Chemicals	J.Zhang, H.Asakura, J.V.Rijn, J.Yang, P.Duchesne, B.Zhang, X.Chen, P.Zhang, M.Saeyns and N.Yan	Green Chemistry	NW10A	189
Lifting of <i>xz/yz</i> Orbital Degeneracy at the Structural Transition in Detwinned FeSe	T.Shimajima, Y.Suzuki, T.Sonobe, A.Nakamura, M.Sakano, J.Omachi, K.Yoshioka, M.Kuwata-Gonokami, K.Ono, H.Kumigashira, A.E.Bohmer, F.Hardy, T.Wolf, C.Meingast, H.V.Lohneysen, H.Ikeda and K.Ishizaka	Physical Review B	28A	174
Giant Seebeck Coefficient in Semiconducting Single-Wall Carbon Nanotube Film	Y.Nakai, K.Honda, K.Yanagi, H.Kataura, T.Kato, T.Yamamoto and Y.Maniwa	Applied Physics Express	8A, 8B	152
Structure of the LH1-RC complex from <i>Thermochromatium tepidum</i> at 3.0 Å	S.Niwa, L.-J.Yu, K.Takeda, Y.Hirano, T.Kawakami, Z.-Y.Wang-Otomo and K.Miki	Nature	1A, 17A, NE3A	147

※被引用数は 2021 年 6 月 Scopus 調べ

2013 年出版

論文タイトル	著者名	雑誌名	使用 BL	被引用数
Recent Advances in Photocatalytic Conversion of Carbon Dioxide into Fuels with Water and/or Hydrogen using Solar Energy and Beyond	Y.Izumi	Coordination Chemistry Reviews	7C, 9A, 9C, 12C, NW10A	473
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	NE3A	400
Molecular Mechanism of Strigolactone Perception by DWARF14	H.Nakamura, Y.L.Xue, T.Miyakawa, F.Hou, H.M.Qin, K.Fukui, X.Shi, E.Ito, S.Ito, S.H.Park, Y.Miyauchi, A.Asano, N.Totsuka, T.Ueda, M.Tanokura and T.Asami	Nature Communications	NE3A	207
Ceria-Doped Ni/SBA-16 Catalysts for Dry Reforming of Methane	S.Zhang, S.Muratsugu, N.Ishiguro and M.Tada	ACS Catalysis	9C	206
Structural Reorganization of the Toll-Like Receptor 8 Dimer Induced by Agonistic Ligands	H.Tanji, U.Ohto, T.Shibata, K.Miyake and T.Shimizu	Science	NE3A, NW12A	200
Revealing the Binding Structure of the Protein Corona on Gold Nanorods Using Synchrotron Radiation-Based Techniques: Understanding the Reduced Damage in Cell Membranes	L.Wang, J.Li, J.Pan, X.Jiang, Y.Ji, Y.Li, Y.Qu, Y.Zhao, X.Wu and C.Chen	Journal of the American Chemical Society	11B, 4A, 12C	162
Bimetallic Cyanide-Bridged Coordination Polymers as Lithium Ion Cathode Materials: Core@Shell Nanoparticles with Enhanced Cyclability	D.Asakura, C.H.Li, Y.Mizuno, M.Okubo, H.S.Zhou and D.R.Talham	Journal of the American Chemical Society	7C	149
Efficient Hydrogen Production and Photocatalytic Reduction of Nitrobenzene over a Visible-Light-Responsive Metal-Organic Framework Photocatalyst	T.Toyao, M.Saito, Y.Horiuchi, K.Mochizuki, M.Iwata, H.Higashimura and M.Matsuoka	Catalysis Science & Technology	7C	145
Synthesis and Electrode Performance of O ₃ -Type NaFeO ₂ -NaNi _{1/2} Mn _{1/2} O ₂ Solid Solution for Rechargeable Sodium Batteries	N.Yabuuchi, M.Yano, H.Yoshida, S.Kuze and S.Komaba	Journal of The Electrochemical Society	12C	138
Highly Active Screen-Printed Electrocatalysts for Water Oxidation Based on β-Manganese Oxide	M.Fekete, R.K.Hocking, S.L.Y.Chang, C.Italiano, A.F.Patti, F.Arena and L.Spiccia	Energy & Environmental Science	20B	127

※被引用数は 2021 年 6 月 Scopus 調べ

2012 年出版

論文タイトル	著者名	雑誌名	使用 BL	被引用数
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	12C	1489
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	18A	1236
Experimental Realization of a Topological Crystalline Insulator in SnTe	Y.Tanaka, Z.Ren, T.Sato, K.Nakayama, S.Souma, T.Takahashi, K.Segawa and Y.Ando	Nature Physics	28A	601
Alkali-Metal-Promoted Pt/TiO ₂ Opens a More Efficient Pathway to Formaldehyde Oxidation at Ambient Temperatures	C.Zhang, F.Liu, Y.Zhai, H.Arigo, N.Yi, Y.Liu, K.Asakura, M.Flytzani-Stephanopoulos and H.He	Angewandte Chemie-International Edition	7C, 12C	441
Study on the Reversible Electrode Reaction of $\text{Na}_{1-x}\text{Ni}_{0.5}\text{Mn}_{0.5}\text{O}_2$ for a Rechargeable Sodium-Ion Battery	S.Komaba, N.Yabuuchi, T.Nakayama, A.Ogata, T.Ishikawa and I.Nakai	Inorganic Chemistry	12C	421
A Sensor-Adaptor Mechanism for Enterovirus Uncoating from Structures of EV71	X.Wang, W.Peng, J.Ren, Z.Hu, J.Xu, Z.Lou, X.Li, W.Yin, X.Shen, C.Porta, T.S.Walter, G.Evans, D.Axford, R.Owen, D.J.Rowlands, J.Wang, D.I.Stuart, E.E.Fry and Z.Rao	Nature Structural & Molecular Biology	17A	274
Gold Nanoparticles Stabilized on Nanocrystalline Magnesium Oxide as an Active Catalyst for Reduction of Nitroarenes in Aqueous Medium at Room Temperature	K.Layek, M.L.Kantam, M.Shirai, D.Nishio-Hamane, T.Sasaki and H.Maheswaran	Green Chemistry	7C, 9C	259
In Operando X-ray Absorption Fine Structure Studies of Polyoxometalate Molecular Cluster Batteries: Polyoxometalates as Electron Sponges	H.Wang, S.Hamanaka, Y.Nishimoto, S.Irle, T.Yokoyama, H.Yoshikawa and K.Awaga	Journal of the American Chemical Society	NW10A	246
Tunable Dirac Cone in the Topological Insulator $\text{Bi}_{2-x}\text{Sb}_x\text{Te}_{3-y}\text{Se}_y$	T.Arakane, T.Sato, S.Souma, K.Kosaka, K.Nakayama, M.Komatsu, T.Takahashi, Z.Ren, K.Segawa and Y.Ando	Nature Communications	28A	243
Chemically Homogeneous and Thermally Reversible Oxidation of Epitaxial Graphene	Md.Z.Hossain, J.E.Johns, K.H.Bevan, H.J.Karmel, Y.T.Liang, S.Yoshimoto, K.Mukai, T.Koitaya, J.Yoshinobu, M.Kawai, A.M.Lear, L.L.Kesmodel, S.L.Tait and M.C.Hersam	Nature Chemistry	13A	228

※被引用数は 2021 年 6 月 Scopus 調べ

2011 年出版

論文タイトル	著者名	雑誌名	使用 BL	被引用数
Inkjet Printing of Single-Crystal Films	H.Minemawari, T.Yamada, H.Matsui, J.Tsutsumi, S.Haas, R.Chiba, R.Kumai and T.Hasegawa	Nature	8A	1289
Detailed Studies of a High-Capacity Electrode Material for Rechargeable Batteries, $\text{Li}_2\text{MnO}_3\text{-LiCo}_{1/3}\text{Ni}_{1/3}\text{Mn}_{1/3}\text{O}_2$	N.Yabuuchi, K.Yoshii, S.Myung, I.Nakai and S.Komaba	Journal of the American Chemical Society	12C	914
Giant Rashba-Type Spin Splitting in Bulk BiTeI	K.Ishizaka, M.S.Bahramy, H.Murakawa, M.Sakano, T.Shimajima, T.Sonobe, K.Koizumi, S.Shin, H.Miyahara, A.Kimura, K.Miyamoto, T.Okuda, H.Namatame, M.Taniguchi, R.Arita, N.Nagaosa, K.Kobayashi, Y.Murakami, R.Kumai, Y.Kaneko, Y.Onose and Y.Tokura	Nature Materials	8A	537
Water-Oxidation Catalysis by Manganese in a Geochemical-Like Cycle	R.K.Hocking, R.Brimblecombe, L.-Y.Chang, A.Singh, M.H.Cheah, C.Glover, W.H.Casey and L.Spiccia	Nature Chemistry	20B	401
14-3-3 Proteins Act as Intracellular Receptors for Rice Hd3a Florigen	K.Taoka, I.Ohki, H.Tsuji, K.Furuita, K.Hayashi, T.Yanase, M.Yamaguchi, C.Nakashima, Y.A.Purwestri, S.Tamaki, Y.Ogaki, C.Shimada, A.Nakagawa, C.Kojima and K.Shimamoto	Nature	5A, NW12A	355
Itokawa Dust Particles: A Direct Link between S-Type Asteroids and Ordinary Chondrites	T.Nakamura, T.Noguchi, M.Tanaka, M.E.Zolensky, M.Kimura, A.Tsuchiyama, A.Nakato, T.Ogami, H.Ishida, M.Uesugi, T.Yada, K.Shirai, A.Fujimura, R.Okazaki, S.A.Sandford, Y.Ishibashi, M.Abe, T.Okada, M.Ueno, T.Mukai, M.Yoshikawa and J.Kawaguchi	Science	3A	336
Patternable Solution-Crystallized Organic Transistors with High Charge Carrier Mobility	K.Nakayama, Y.Hirose, J.Soeda, M.Yoshizumi, T.Uemura, M.Uno, W.Li, M.J.Kang, M.Yamagishi, Y.Okada, E.Miyazaki, Y.Nakazawa, A.Nakao, K.Takimiya and J.Takeya	Advanced Materials	8B	295
Linear- and Angular-Shaped Naphthodithiophenes: Selective Synthesis, Properties, and Application to Organic Field-Effect Transistors	S.Shinamura, I.Osaka, E.Miyazaki, A.Nakao, M.Yamagishi, J.Takeya and K.Takimiya	Journal of the American Chemical Society	8B	247
Catalytic Performance and Characterization of Ni-Fe Catalysts for the Steam Reforming of Tar from Biomass Pyrolysis to Synthesis Gas	L.Wang, D.Li, M.Koike, S.Koso, Y.Nakagawa, Y.Xu and K.Tomishige	Applied Catalysis A	9C	230
Photocatalytic Conversion of Carbon Dioxide into Methanol using Zinc-Copper-M(III) (M = Aluminum, Gallium) Layered Double Hydroxides	N.Ahmed, Y.Shibata, T.Taniguchi and Y.Izumi	Journal of Catalysis	7C, 9A, 9C, 12C, NW10A	201

※被引用数は 2021 年 6 月 Scopus 調べ