

Takahiko Sasaki

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407
papers

8,323
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78
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450
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#	Paper	IF	Citations
407	Enhancement of the High-Rate Capability of Solid-State Lithium Batteries by Nanoscale Interfacial Modification. <i>Advanced Materials</i> , 2006 , 18, 2226-2229	24	592
406	Layered MnO ₂ Nanobelts: Hydrothermal Synthesis and Electrochemical Measurements. <i>Advanced Materials</i> , 2004 , 16, 918-922	24	289
405	PEDOT Nanocrystal in Highly Conductive PEDOT:PSS Polymer Films. <i>Macromolecules</i> , 2012 , 45, 3859-3865	55	279
404	Thermal-transport measurements in a quantum spin-liquid state of the frustrated triangular magnet κ -(BEDT-TTF) ₂ Cu ₂ (CN) ₃ . <i>Nature Physics</i> , 2009 , 5, 44-47	16.2	244
403	High-Dielectric Nanofilms Fabricated from Titania Nanosheets. <i>Advanced Materials</i> , 2006 , 18, 1023-1027	24	184
402	Superconducting gap structure of kappa-(BEDT-TTF) ₂ Cu(NCS) ₂ probed by thermal conductivity tensor. <i>Physical Review Letters</i> , 2002 , 88, 027002	7.4	181
401	Superconducting gap structure of spin-triplet superconductor Sr ₂ RuO ₄ studied by thermal conductivity. <i>Physical Review Letters</i> , 2001 , 86, 2653-6	7.4	177
400	Anomalous dielectric response in the dimer Mott insulator κ -(BEDT-TTF) ₂ Cu ₂ (CN) ₃ . <i>Physical Review B</i> , 2010 , 82,	3.3	142
399	Evidence for structural and electronic instabilities at intermediate temperatures in κ -(BEDT-TTF) ₂ X for X=Cu[N(CN) ₂]Cl, Cu[N(CN) ₂]Br and Cu(NCS) ₂ : Implications for the phase diagram of these quasi-two-dimensional organic superconductors. <i>Physical Review B</i> , 2002 , 65,	3.3	139
398	Gigantic MagnetoOptical Effects in Multilayer Assemblies of Two-Dimensional Titania Nanosheets. <i>Advanced Materials</i> , 2006 , 18, 295-299	24	129
397	Transport properties of organic conductor (BEDT-TTF) ₂ KHg(SCN) ₄ : I. Resistance and magnetoresistance anomaly. <i>Solid State Communications</i> , 1990 , 75, 93-96	1.6	117
396	Spin-splitting Shubnikov-de Haas oscillations in organic conductor (BEDT-TTF) ₂ KHg(SCN) ₄ . <i>Synthetic Metals</i> , 1991 , 42, 2211-2214	3.6	114
395	Magnetic breakdown effect in organic superconductor κ -(BEDT-TTF) ₂ Cu(NCS) ₂ . <i>Solid State Communications</i> , 1990 , 76, 507-510	1.6	103
394	Unconventional Superconductivity and Nearly Ferromagnetic Spin Fluctuations in Na _x CoO ₂ ·yH ₂ O. <i>Journal of the Physical Society of Japan</i> , 2003 , 72, 3041-3044	1.5	100
393	Water-in-Oil Microemulsion Preparation and Characterization of Cs ₂ [Mo ₆ X ₁₄]@SiO ₂ Phosphor Nanoparticles Based on Transition Metal Clusters (X = Cl, Br, and I). <i>Advanced Materials</i> , 2008 , 20, 143-148	24	98
392	High temperature ferromagnetism in single crystalline dilute Fe-doped BaTiO ₃ . <i>Physical Review B</i> , 2008 , 77,	3.3	97
391	Nanoporous Fullerene Nanowhiskers. <i>Chemistry of Materials</i> , 2007 , 19, 2398-2400	9.6	96

390	Ferromagnetism in two-dimensional $\text{Ti}_0.8\text{Co}_0.2\text{O}_2$ nanosheets. <i>Physical Review B</i> , 2006 , 73,	3.3	93
389	One-Nanometer-Thick Seed Layer of Unilamellar Nanosheets Promotes Oriented Growth of Oxide Crystal Films. <i>Advanced Materials</i> , 2008 , 20, 231-235	24	89
388	Magnetic penetration depth of kappa $-(\text{BEDT-TTF})_2\text{Cu}(\text{NCS})_2$: Strong evidence for conventional Cooper pairing. <i>Physical Review Letters</i> , 1992 , 69, 1443-1446	7.4	85
387	Fluctuation effects and mixed-state properties of the layered organic superconductors kappa $-(\text{BEDT-TTF})_2\text{Cu}(\text{NCS})_2$ and kappa $-(\text{BEDT-TTF})_2\text{Cu}$. <i>Physical Review B</i> , 1994 , 49, 15227-15234	3.3	83
386	High-energy spin and charge excitations in electron-doped copper oxide superconductors. <i>Nature Communications</i> , 2014 , 5, 3714	17.4	80
385	Low-temperature electrical conductivity of highly conducting polyacetylene in a magnetic field. <i>Physical Review B</i> , 1991 , 43, 11829-11839	3.3	79
384	High-resolution ac-calorimetry studies of the quasi-two-dimensional organic superconductor $(\text{BEDT-TTF})_2\text{Cu}(\text{NCS})_2$. <i>Physical Review B</i> , 2002 , 65,	3.3	73
383	Anisotropic galvanomagnetic effect in the quasi-two-dimensional organic conductor alpha $-(\text{BEDT-TTF})_2\text{KHg}(\text{SCN})_4$, where BEDT-TTF is bis(ethylenedithio)tetrathiafulvalene. <i>Physical Review B</i> , 1994 , 49, 10120-10130	3.3	73
382	Zero field muon spin relaxation study of the low temperature state in alpha $-(\text{BEDT-TTF})_2\text{KHg}(\text{SCN})_4$. <i>Physical Review Letters</i> , 1995 , 74, 3892-3895	7.4	71
381	Nanometer-thin layered hydroxide platelets of $(\text{Y}_{0.95}\text{Eu}_{0.05})_2(\text{OH})_5\text{NO}_3 \cdot x\text{H}_2\text{O}$: exfoliation-free synthesis, self-assembly, and the derivation of dense oriented oxide films of high transparency and greatly enhanced luminescence. <i>Journal of Materials Chemistry</i> , 2011 , 21, 6903		66
380	Early-stage dynamics of light-matter interaction leading to the insulator-to-metal transition in a charge ordered organic crystal. <i>Physical Review Letters</i> , 2010 , 105, 246402	7.4	66
379	Magnetic phase diagram of the organic conductor $(\text{BEDT-TTF})_2\text{KHg}(\text{SCN})_4$. <i>Solid State Communications</i> , 1992 , 82, 447-451	1.6	64
378	Phase transition in the vortex liquid and the critical endpoint in $\text{YBa}_2\text{Cu}_3\text{O}_y$. <i>Physical Review B</i> , 2002 , 66,	3.3	63
377	Quantum liquid of vortices in the quasi-two-dimensional organic superconductor $(\text{BEDT-TTF})_2\text{Cu}(\text{NCS})_2$. <i>Physical Review B</i> , 1998 , 57, 10889-10892	3.3	60
376	Evolution of the Electronic State through the Reduction Annealing in Electron-Doped $\text{Pr}_{1.3-x}\text{La}_{0.7}\text{Ce}_x\text{CuO}_4$ ($x=0.10$) Single Crystals: Antiferromagnetism, Kondo Effect, and Superconductivity. <i>Journal of the Physical Society of Japan</i> , 2013 , 82, 063713	1.5	59
375	Evidence of many-body renormalizations in some organic conductors. <i>Solid State Communications</i> , 1989 , 72, 859-862	1.6	59
374	Cyclotron Mass and Dingle Temperature of Conduction Electrons Moving in Layered Planes of Organic Superconductors: $(\text{BEDT-TTF})_2\text{I}(\text{Br})_2$, $(\text{BEDT-TTF})_2\text{I}(\text{SCN})_2$ and $(\text{BEDT-TTF})_2\text{Cu}(\text{NCS})_2$. <i>Journal of the Physical Society of Japan</i> , 1988 , 57, 2616-2619	1.5	59
373	Investigation of Vortex Behavior in the Organic Superconductor $(\text{BEDT-TTF})_2\text{Cu}(\text{SCN})_2$ Using Muon Spin Rotation. <i>Physical Review Letters</i> , 1997 , 79, 1563-1566	7.4	58

- 372 Magnetic field induced sign reversal of the anomalous Hall effect in a pyrochlore ferromagnet Nd₂Mo₂O₇: evidence for a spin chirality mechanism. *Physical Review Letters*, **2003**, 90, 257202 7.4 58
- 371 Transport properties of organic conductor (BEDT-TTF)₂KHg(SCN)₄: II. Shubnikov-de Haas oscillations and spin-splitting effect. *Solid State Communications*, **1990**, 75, 97-100 1.6 58
- 370 Evidence of nodal superconductivity in Na_{0.35}CoO₂·1.3H₂O: A specific-heat study. *Physical Review B*, **2005**, 71, 3-3 56
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- 368 Transport properties of (BEDT-TTF)₂Cu(NCS)₂; HC₂, Its anisotropy and their pressure dependence. *Synthetic Metals*, **1988**, 27, A341-A346 3.6 55
- 367 Optical modulation of effective on-site coulomb energy for the Mott transition in an organic dimer insulator. *Physical Review Letters*, **2009**, 103, 066403 7.4 54
- 366 Imaging phase separation near the Mott boundary of the correlated organic superconductors kappa-(BEDT-TTF)₂X. *Physical Review Letters*, **2004**, 92, 227001 7.4 53
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- 362 Improved creep strength and creep ductility of type 347 austenitic stainless steel through the self-healing effect of boron for creep cavitation. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2005**, 36, 399-409 2.3 50
- 361 Growth of Single Crystals in the Bi-Sr-Ca-Cu-O System Using KCl as a Flux. *Japanese Journal of Applied Physics*, **1989**, 28, L791-L793 1.4 50
- 360 Bulk electronic structure of Na_{0.35}CoO₂·1.3H₂O. *Physical Review B*, **2004**, 69, 3-3 49
- 359 Optical freezing of charge motion in an organic conductor. *Nature Communications*, **2014**, 5, 5528 17.4 47
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- 357 Quantum Spin Liquid Emerging from Antiferromagnetic Order by Introducing Disorder. *Physical Review Letters*, **2015**, 115, 077001 7.4 44
- 356 Real Space Imaging of the Metal-Insulator Phase Separation in the Band Width Controlled Organic Mott System (BEDT-TTF)₂Cu[N(CN)₂]Br. *Journal of the Physical Society of Japan*, **2005**, 74, 2351-2360 1.5 44
- 355 Possible phase transition deep inside the hidden order phase of ultraclean URu₂Si₂. *Physical Review Letters*, **2009**, 102, 156403 7.4 43

354	Relaxor ferroelectricity induced by electron correlations in a molecular dimer Mott insulator. <i>Physical Review B</i> , 2013 , 87,	3-3	42
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352	Interplay of the spin-density-wave state and magnetic field in the organic conductor alpha-(BEDT-TTF) ₂ KHg(SCN) ₄ . <i>Physical Review B</i> , 1996 , 54, 12969-12978	3-3	42
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350	Observation of superconductivity-induced phonon frequency changes in the organic superconductor kappa-(BEDT-TTF) ₂ Cu(NCS) ₂ . <i>Europhysics Letters</i> , 1997 , 37, 627-632	1-6	41
349	Magnetic torque of α -(BETS) ₂ FeCl ₄ . <i>Synthetic Metals</i> , 2001 , 120, 759-760	3-6	40
348	Comparative thermal-expansion study of α -(BETS) ₂ SF ₅ CH ₂ CF ₂ SO ₃ and α -(BETS) ₂ Cu(NCS) ₂ : Uniaxial pressure coefficients of T _c and upper critical fields. <i>Physical Review B</i> , 2000 , 61, 11739-11744	3-3	39
347	Electronic correlation in the infrared optical properties of the quasi-two-dimensional β -type BEDT-TTF dimer system. <i>Physical Review B</i> , 2004 , 69,	3-3	38
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344	Magnetic-field effects on the in-plane electrical resistivity in single-crystal La _{2-x} Ba _x CuO ₄ and La _{1.6-x} Nd _{0.4} Sr _x CuO ₄ around x=18: Implication for the field-induced stripe order. <i>Physical Review B</i> , 2005 , 71,	3-3	36
343	Lattice Parameters of α -(BEDT-TTF) ₂ Cu[N(CN) ₂]Br. <i>Journal of the Physical Society of Japan</i> , 1991 , 60, 3608-3611	1-5	36
342	On the resistance maximum in high-T _c K-(BEDT-TTF) ₂ Cu(NCS) ₂ . <i>Solid State Communications</i> , 1990 , 74, 361-365	1-6	36
341	Optical probe of carrier doping by X-ray irradiation in the organic dimer Mott insulator kappa-(BEDT-TTF) ₂ Cu[N(CN) ₂]Cl. <i>Physical Review Letters</i> , 2008 , 101, 206403	7-4	35
340	Anisotropic properties of the anomalous second peak in the magnetization curves and the irreversibility field of YBa ₂ Cu ₃ O _y (6.6 \leq \leq 6.9) single crystals. <i>Physica C: Superconductivity and Its Applications</i> , 1995 , 251, 255-262	1-3	34
339	Anomalous magnetization and dimensional crossover of the vortex system in the organic superconductor kappa-(BEDT-TTF) ₂ Cu(NCS) ₂ . <i>Physical Review B</i> , 1996 , 54, R3760-R3763	3-3	33
338	A New Superconducting Phase of Sodium Cobalt Oxide. <i>Advanced Materials</i> , 2004 , 16, 1901-1905	24	32
337	Microscopic Phase Separation in Triangular-Lattice Quantum Spin Magnet α -(BEDT-TTF) ₂ Cu ₂ (CN) ₃ Probed by Muon Spin Relaxation. <i>Journal of the Physical Society of Japan</i> , 2012 , 81, 063706	1-5	31

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- 331 Laser-excited ultrahigh-resolution photoemission spectroscopy of $Na_xCoO_2 \cdot yH_2O$: Evidence for pseudogap formation. *Physical Review B*, **2005**, 71, 3.3 28
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- 326 Shadow bands in single-layered $Bi_2Sr_2CuO_{6+x}$ studied by angle-resolved photoemission spectroscopy. *Physical Review B*, **2006**, 74, 3.3 26
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- 321 Fermi Surfaces and Crystal Structure of a New Organic Conductor β -(BEDT-TTF) $_2$ KHg(SeCN) $_4$. *Journal of the Physical Society of Japan*, **1996**, 65, 213-220 1.5 25
- 320 Crystallization and vitrification of electrons in a glass-forming charge liquid. *Science*, **2017**, 357, 1381-1385 9.3 24
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314	Low-temperature vortex liquid states induced by quantum fluctuations in the quasi-two-dimensional organic superconductor κ (BEDT-TTF) ₂ Cu(NCS) ₂ . <i>Physical Review B</i> , 2002 , 66,	3.3	23
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311	Impurity Effect on the In-plane Penetration Depth of the Organic Superconductors κ (BEDT-TTF) ₂ X (X= Cu(NCS) ₂ and Cu[N(CN) ₂]Br). <i>Journal of the Physical Society of Japan</i> , 2004 , 73, 1290-1296	1.5	22
310	Superconducting properties in bulk nanostructured niobium prepared by high-pressure torsion. <i>Physica C: Superconductivity and Its Applications</i> , 2013 , 493, 132-135	1.3	21
309	Anomalies in static spin susceptibility and hydrogen bonding in high-T _c κ (BEDT-TTF) ₂ Cu(NCS) ₂ : possible valence mixing of Cu ions. <i>Physica C: Superconductivity and Its Applications</i> , 1991 , 178, 339-344	1.3	21
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307	Crystal growth of a new orthorhombic ErBa(Cu,Pt)O ₄ material: Crystal chemistry and characterization. <i>Journal of Crystal Growth</i> , 1987 , 85, 599-601	1.6	20
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303	Internal magnetic structure and spin dynamics in transverse field of the molecular nanomagnet Mn ₁₂ -acetate studied by ⁵⁵ Mn NMR. <i>Physical Review B</i> , 2003 , 67,	3.3	19
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- 292 Antiferromagnetic Ordering in the Conducting β System β -(BEDT-TSF) $_2$ FeCl $_4$ (where BEDT-TSF is Bis(ethylenedithio)tetrathiafulvalene, C $_{10}$ S $_4$ Se $_4$ H $_8$). *Journal of the Physical Society of Japan*, **2000**, 69, 2759-2762 1.5 16
- 291 Symmetry Change in the Angular Dependence of Magnetoresistance of the Two-Dimensional Organic Conductor, β -(EDO-S, S-DMEDT-TTF) $_2$ (AuBr $_2$)(AuBr $_2$) $_y$, ($y \sim 0.75$). *Journal of the Physical Society of Japan*, **1999**, 68, 177-180 1.5 16
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- 287 Geometrical isotope effect induced by deuteration of β -(BEDT-TTF) $_2$ X (X=CuN(CN) $_2$ Br and Cu(NCS) $_2$). *Synthetic Metals*, **1997**, 86, 1917-1918 3.6 15
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