Takahide Yamaguchi

List of Publications by Year in Descending Order

140 papers	4,067 citations	29 h-index	61 g-index
149 ext. papers	4,348 ext. citations	2.7 avg, IF	4.92 L-index

#	Paper	IF	Citations
140	High-mobility p-channel wide-bandgap transistors based on hydrogen-terminated diamond/hexagonal boron nitride heterostructures. *Nature Electronics*, **2022**, 5, 37-44	28.4	16
139	Charge-carrier mobility in hydrogen-terminated diamond field-effect transistors. *Journal of Applied Physics*, **2020**, 127, 185707	2.5	16
138	Single-crystalline boron-doped diamond superconducting quantum interference devices with regrowth-induced step edge structure. *Scientific Reports*, **2019**, 9, 15214	4.9	2
137	Quantum oscillations in diamond field-effect transistors with a h-BN gate dielectric. *Physical Review Materials*, **2019**, 3,	3.2	10
136	Ionic-liquid-gating setup for stable measurements and reduced electronic inhomogeneity at low temperatures. *Review of Scientific Instruments*, **2018**, 89, 103903	1.7	2
135	High-mobility diamond field effect transistor with a monocrystalline h-BN gate dielectric. *APL Materials*, **2018**, 6, 111105	5.7	39
134	Superconductivity in nano- and micro-patterned high quality single crystalline boron-doped diamond films. *Diamond and Related Materials*, **2018**, 90, 181-187	3.5	7
133	Transport Properties of Hydrogen-Terminated Silicon Surface Controlled by Ionic-Liquid Gating. *Journal of the Physical Society of Japan*, **2017**, 86, 014703	1.5	4
132	Low-Temperature Carrier Transport in Ionic-Liquid-Gated Hydrogen-Terminated Silicon. *Journal of the Physical Society of Japan*, **2017**, 86, 114703	1.5	2
131	Internal field effect on vortex states in the layered organic superconductor □(BETS)2Fe1□GaxCl4 (x=0.37). *Physical Review B*, **2017**, 95,	3.3	4
130	Superconductivity in alkali-doped fullerene nanowhiskers. *Journal of Physics Condensed Matter*, **2016**, 28, 354003	1.8	6
129	Spin-induced anomalous magnetoresistance at the (100) surface of hydrogen-terminated diamond. *Physical Review B*, **2016**, 94,	3.3	10
128	Electrochemical Deposition of FeSe on RABiTS Tapes. *Journal of the Physical Society of Japan*, **2016**, 85, 015001	1.5	13
127	Note: Novel diamond anvil cell for electrical measurements using boron-doped metallic diamond electrodes. *Review of Scientific Instruments*, **2016**, 87, 076103	1.7	27
126	Origin of the Higher-Tc Phase in the KxFe2□Se2 System. *Journal of the Physical Society of Japan*, **2016**, 85, 044710	1.5	12
125	Coexistence of Bulk Superconductivity and Magnetism in CeO1□FxBiS2. *Journal of the Physical Society of Japan*, **2015**, 84, 024709	1.5	49
124	Site selectivity on chalcogen atoms in superconducting La(O,F)BiSSe. *Applied Physics Letters*, **2015**, 106, 112601	3.4	30

123	Superconductivity in FeTe1−xSx Induced by Electrochemical Reaction Using Ionic Liquid Solution. *Journal of the Physical Society of Japan*, **2015**, 84, 034706	1.5	5
122	Vortex Dynamics and Diamagnetic Torque Signals in Two Dimensional Organic Superconductor κ-(BETS)2GaCl4. *Journal of the Physical Society of Japan*, **2015**, 84, 104709	1.5	20
121	Pressure-Induced Superconductivity in BiS2-Based EuFBiS2. *Journal of the Physical Society of Japan*, **2015**, 84, 115003	1.5	12
120	Observation of a Pressure-Induced Phase Transition for Single Crystalline LaO0.5F0.5BiSeS Using a Diamond Anvil Cell. *Journal of the Physical Society of Japan*, **2015**, 84, 095001	1.5	3
119	Superconductivity in Fe1+d Te0.9Se0.1 Induced by Deintercalation of Excess Fe Using Alcoholic Beverage Treatment. *Journal of Superconductivity and Novel Magnetism*, **2014**, 27, 305-308	1.5	5
118	Superconductivity in FeTe0.8S0.2 induced by battery-like reaction. *Solid State Communications*, **2014**, 200, 29-31	1.6	6
117	First single crystal growth and structural analysis of superconducting layered bismuth oxyselenide; La(O,F)BiSe2. *Journal of Solid State Chemistry*, **2014**, 219, 168-172	3.3	32
116	Electrical transport properties of small diameter single-walled carbon nanotubes aligned on ST-cut quartz substrates. *Nanoscale Research Letters*, **2014**, 9, 374	5	4
115	Evidence for non-metallic behaviour in tetragonal FeS (mackinawite). *Materials Chemistry and Physics*, **2014**, 147, 50-56	4.4	24
114	Amorphous FeAs-free SmFeAsO1−xFxusing low temperature sintering with slow cooling. *Journal of Physics: Conference Series*, **2014**, 507, 012015	0.3	
113	The effect of exceptionally high fluorine doping on the anisotropy of single crystalline SmFeAsO1−xFx. *Applied Physics Letters*, **2014**, 105, 102602	3.4	19
112	Quantum oscillations of the two-dimensional hole gas at atomically flat diamond surfaces. *Physical Review B*, **2014**, 89,	3.3	27
111	High-Tc Phase of PrO0.5F0.5BiS2 single crystal induced by uniaxial pressure. *Applied Physics Letters*, **2014**, 105, 052601	3.4	25
110	Pressure-induced phase transition for single-crystalline LaO 0.5 F 0.5 BiSe 2. *Europhysics Letters*, **2014**, 108, 47007	1.6	18
109	Excess iron deintercalation induced superconductivity in Fe(Te, Se) and Fe(Te, S) via sulfur annealing. *Journal of Applied Physics*, **2014**, 115, 053909	2.5	9
108	Pressure-dependent magnetization and magnetoresistivity studies on tetragonal FeS (mackinawite): revealing its intrinsic metallic character. *Science and Technology of Advanced Materials*, **2014**, 15, 055007	7.1	16
107	Fermiological interpretation of FeTe 1− Se x thin crystal by quantum conductance oscillation. *Europhysics Letters*, **2013**, 104, 37010	1.6	4
106	Tartaric acid in red wine as one of the key factors to induce superconductivity in FeTe0.8S0.2. *Physica C: Superconductivity and Its Applications*, **2013**, 487, 16-18	1.3	8

105	Electrodeposition as a new route to synthesize superconducting FeSe. *Solid State Communications*, **2013**, 154, 40-42	1.6	27
104	New Member of BiS2-Based Superconductor NdO1-xFxBiS2. *Journal of the Physical Society of Japan*, **2013**, 82, 033708	1.5	222
103	Preparation and superconductivity of potassium-doped fullerene nanowhiskers. *Materials Research Bulletin*, **2013**, 48, 343-345	5.1	23
102	Low-Temperature Transport Properties of Holes Introduced by Ionic Liquid Gating in Hydrogen-Terminated Diamond Surfaces. *Journal of the Physical Society of Japan*, **2013**, 82, 074718	1.5	25
101	Phase diagram and superconductivity at 58.1 K in FeAs-free SmFeAsO1FFx. *Superconductor Science and Technology*, **2013**, 26, 085023	3.1	59
100	Evolution of superconductivity in isovalent Te-substituted KxFe2ySe2crystals. *Superconductor Science and Technology*, **2013**, 26, 055002	3.1	11
99	Kosterlitz-Thouless-type transition in a charge ordered state of the layered organic conductor (BEDT-TTF)2I3. *Physical Review Letters*, **2013**, 110, 196602	7.4	9
98	Evolution of superconductivity in LaO 1F x BiS 2 prepared by high-pressure technique. *Europhysics Letters*, **2013**, 101, 17004	1.6	115
97	FeAs-Free SmFeAsO1-xFxby Low Temperature Sintering with Slow Cooling. *Journal of the Physical Society of Japan*, **2013**, 82, 094707	1.5	8
96	Effect of the Indium Addition on the Superconducting Property and the Impurity Phase in Polycrystalline SmFeAsO1-xFx. *Journal of the Physical Society of Japan*, **2013**, 82, 024705	1.5	8
95	Orbital Effect on FFLO Phase and Energy Dissipation due to Vortex Dynamics in Magnetic-Field-Induced Superconductor (BETS)2FeCl4. *Journal of the Physical Society of Japan*, **2013**, 82, 034715	1.5	14
94	Structural characterization of the C60 nanowhiskers heat-treated at high temperatures for potential superconductor application. *Transactions of the Materials Research Society of Japan*, **2013**, 38, 517-520	0.2	
93	Phase diagram and oxygen annealing effect of FeTe1FSex iron-based superconductor. *Solid State Communications*, **2012**, 152, 1135-1138	1.6	57
92	Fabrication of binary FeSe superconducting wires by diffusion process. *Journal of Applied Physics*, **2012**, 111, 112620	2.5	37
91	Clarification as to why alcoholic beverages have the ability to induce superconductivity in Fe1+dTe1FSx. *Superconductor Science and Technology*, **2012**, 25, 084025	3.1	21
90	Macroscopic quantum tunneling and phase diffusion in a La2FSrxCuO4 intrinsic Josephson junction stack. *Physical Review B*, **2012**, 86,	3.3	9
89	Superconducting fullerene nanowhiskers. *Molecules*, **2012**, 17, 4851-9	4.8	34
88	Vertical SNS weak-link Josephson junction fabricated from only boron-doped diamond. *Physical Review B*, **2012**, 85,	3.3	13

87	One-step synthesis of K x Fe 2 Se 2 single crystal for high critical current density. *Europhysics Letters*, **2012**, 98, 27002	1.6	29
86	Charge Transport in Charge-Ordered States of Two-Dimensional Organic Conductors, (BEDT-TTF)2I3 and (BEDT-TTF)2IBr2. *Journal of the Physical Society of Japan*, **2012**, 81, 044703	1.5	13
85	Evidence of Inhomogeneous Superconductivity in FeTe1-xSexby Scotch-Tape Method. *Journal of the Physical Society of Japan*, **2012**, 81, 113707	1.5	7
84	Electrochemical Synthesis of Iron-Based Superconductor FeSe Films. *Journal of the Physical Society of Japan*, **2012**, 81, 043702	1.5	20
83	Magnetic torque studies on FFLO phase in magnetic-field-induced organic superconductor (BETS)2FeCl4. *Physical Review B*, **2012**, 85,	3.3	34
82	Interlayer charge disproportionation in the layered organic superconductor (H)-(DMEDO-TSeF)2[Au(CN)4](THF) with polar dielectric insulating layers. *Physical Review Letters*, **2012**, 109, 147005	7.4	9
81	Two-dimensional superconductivity in the layered organic superconductor H-(DMEDO-TSeF)2[Au(CN)4](THF) with thick dielectric insulating layers. *Physical Review B*, **2012**, 85,	3.3	2
80	Enhancement of superconducting properties in FeSe wires using a quenching technique. *Journal of Applied Physics*, **2012**, 111, 013912	2.5	17
79	Effect of Pressure on the Electrical Resistance of Individual Boron-Doped Carbon Nanotubes. *Japanese Journal of Applied Physics*, **2012**, 51, 105103	1.4	
78	Superconductivity in oxygen-annealed FeTe1Sx single crystal. *Journal of Applied Physics*, **2011**, 109, 013914	2.5	36
77	Alcoholic beverages induce superconductivity in FeTe1 Sx. *Superconductor Science and Technology*, **2011**, 24, 055008	3.1	42
76	Transport properties and microstructure of mono- and seven-core wires of FeSe1 Texsuperconductor produced by the Fe-diffusion powder-in-tube method. *Superconductor Science and Technology*, **2011**, 24, 105002	3.1	48
75	Raman Spectroscopic Study of K0.8Fe2Se2. *Journal of the Physical Society of Japan*, **2011**, 80, 075003	1.5	1
74	Pressure study on oxygen-annealed FeTe0.8S0.2. *Physica C: Superconductivity and Its Applications*, **2011**, 471, 611-613	1.3	1
73	Single Crystal Growth and Structural Characterization of ${rm FeTe}_{1-x}{rm S}_{x}$. *IEEE Transactions on Applied Superconductivity*, **2011**, 21, 2866-2869	1.8	10
72	Preparation of Thin Crystals of FeTe$_{1-x}$S$_{x}$ Using the Scotch-Tape Method. *Japanese Journal of Applied Physics*, **2011**, 50, 088003	1.4	2
71	Highly nonlinear current-voltage characteristics of the organic Mott insulator (BEDT-TTF)2Cu[N(CN)2]Cl. *Physical Review B*, **2011**, 84,	3.3	16
70	Fermi surface and in-plane anisotropy of the layered organic superconductor -(DMEDO-TSeF)2[Au(CN)4](THF) with domain structures. *Physical Review B*, **2011**, 83,	3.3	6

69	Fermi surface and interlayer transport in the two-dimensional magnetic organic conductor (Me-3,5-DIP)[Ni(dmit)2]2. *Physical Review B*, **2011**, 83,	3.3	10
68	Flow of a single magnetic vortex in a submicron-size superconducting Al disk controlled by radio-frequency currents. *Physical Review Letters*, **2011**, 107, 077002	7.4	6
67	Transport properties of the new Fe-based superconductor KxFe2Se2 (Tc=33 K). *Applied Physics Letters*, **2011**, 98, 042511	3.4	129
66	Fabrication of submicron La2−xSrxCuO4 intrinsic Josephson junction stacks. *Journal of Applied Physics*, **2011**, 109, 033912	2.5	5
65	Pressure Study of the New Iron-Based Superconductor K0.8Fe2Se2. *Journal of the Physical Society of Japan*, **2011**, 80, 075002	1.5	5
64	Preparation of Thin Crystals of FeTe1-xSxUsing the Scotch-Tape Method. *Japanese Journal of Applied Physics*, **2011**, 50, 088003	1.4	
63	Charge transport in charge-ordered layered crystals (BEDT-TTF)2MZn(SCN)4 (M=Cs,Rb): Effects of long-range Coulomb interaction and the Pauli exclusion principle. *Physical Review B*, **2010**, 81,	3.3	18
62	Anion height dependence ofTcfor the Fe-based superconductor. *Superconductor Science and Technology*, **2010**, 23, 054013	3.1	379
61	Moisture-induced superconductivity in FeTe0.8S0.2. *Physical Review B*, **2010**, 81,	3.3	45
60	Evolution of superconductivity by oxygen annealing in FeTe 0.8 S 0.2. *Europhysics Letters*, **2010**, 90, 57002	2.6	55
59	Macroscopic Quantum Tunneling in a Bi2Sr2CaCu2O8+δ Single Crystalline Whisker. *Applied Physics Express*, **2010**, 3, 063104	2.4	8
58	Superconductor-to-insulator transition in boron-doped diamond films grown using chemical vapor deposition. *Physical Review B*, **2010**, 82,	3.3	58
57	Pressure effects on FeSe family superconductors. *Physica C: Superconductivity and Its Applications*, **2010**, 470, S353-S355	1.3	13
56	Air-exposure effects of superconductivity in Fe(Te, S). *Physica C: Superconductivity and Its Applications*, **2010**, 470, S340-S341	1.3	13
55	Mössbauer studies on FeSe and FeTe. *Physica C: Superconductivity and Its Applications*, **2010**, 470, S338-S339	1.3	30
54	Critical concentrations of superconductor to insulator transition in (1 1 1) and (0 0 1) CVD boron-doped diamond. *Physica C: Superconductivity and Its Applications*, **2010**, 470, S604-S607	1.3	2
53	High Field Magnetoresistance and Magnetic Torque in One-Dimensional Organic Conductor TPP[Fe(Pc)(CN)2]2. *Journal of Low Temperature Physics*, **2010**, 159, 272-275	1.3	2
52	Non-linear current–voltage characteristics in α-(BEDT-TTF)2I3. *Physica B: Condensed Matter*, **2010**, 405, S176-S178	2.8	2

51	Stacked SNS Josephson junction of all boron doped diamond. *Physica C: Superconductivity and Its Applications*, **2010**, 470, S613-S615	1.3	10
50	Cross-sectional TEM study and film thickness dependence of Tc in heavily boron-doped superconducting diamond. *Physica C: Superconductivity and Its Applications*, **2010**, 470, S610-S612	1.3	14
49	Microwave plasma chemical vapor deposition synthesis of boron-doped carbon nanotube. *Physica C: Superconductivity and Its Applications*, **2010**, 470, S608-S609	1.3	8
48	Magnetothermal instability in the organic layered superconductor (BEDT-TTF)2Cu(NCS)2. *Physical Review B*, **2009**, 79,	3.3	3
47	Interplay between magnetism and conductivity in the one-dimensional organic conductor TPP[Fe(Pc)(CN)2]2. *Physical Review B*, **2009**, 80,	3.3	12
46	Fabrication of the Iron-Based Superconducting Wire Using Fe(Se,Te). *Applied Physics Express*, **2009**, 2, 083004	2.4	103
45	Electrical properties of boron-doped MWNTs synthesized by hot-filament chemical vapor deposition. *Physica C: Superconductivity and Its Applications*, **2009**, 469, 1002-1004	1.3	7
44	Growth of superconducting single-crystalline (Lu, Ca) Ba2Cu3O7 whiskers. *Physica C: Superconductivity and Its Applications*, **2009**, 469, 965-966	1.3	2
43	FeTe as a candidate material for new iron-based superconductor. *Physica C: Superconductivity and Its Applications*, **2009**, 469, 1027-1029	1.3	61
42	Intrinsic Josephson properties in an optimally doped (Hg, Re)Ba2Ca2Cu3O8+ single crystal. *Physica C: Superconductivity and Its Applications*, **2009**, 469, 1596-1599	1.3	2
41	Substitution Effects on FeSe Superconductor. *Journal of the Physical Society of Japan*, **2009**, 78, 074712	1.5	280
40	Superconductivity in S-substituted FeTe. *Applied Physics Letters*, **2009**, 94, 012503	3.4	245
39	Switching current distributions and subgap structures of underdoped (Hg,Re)Ba2Ca2Cu3O8+ intrinsic Josephson junctions. *Journal of Applied Physics*, **2009**, 106, 074516	2.5	9
38	Large magneto-conductivity effect in Fe-Phthalocyanine conductor at low temperatures. *Journal of Physics: Conference Series*, **2009**, 150, 022040	0.3	
37	Electronic state of magnetic organic conductor (Me-3,5-DIP)[Ni(dmit)2]2. *Journal of Physics: Conference Series*, **2009**, 150, 022025	0.3	1
36	Observation of macroscopic quantum tunneling in La2-xSrxCuO4intrinsic Josephson Junctions. *Journal of Physics: Conference Series*, **2009**, 150, 052132	0.3	1
35	Superconductivity at 27K in tetragonal FeSe under high pressure. *Applied Physics Letters*, **2008**, 93, 152505	3.4	607
34	Antiferromagnetic ordering of the incommensurate organic superconductor (MDT-TS)(AuI2)0.441 with a high spin-flop field. *Physical Review B*, **2008**, 77,	3.3	12

33	Resistivity reduction of boron-doped multiwalled carbon nanotubes synthesized from a methanol solution containing boric acid. *Applied Physics Letters*, **2008**, 92, 202116	3.4	25
32	Easy fabrication of mesa-type Bi2Sr2CaCu2O8+δ intrinsic Josephson junction using cross-whisker junction. *Journal of Physics: Conference Series*, **2008**, 108, 012044	0.3	
31	Measurements of the switching current distribution in REBa2Cu3Oy(RE = Eu, Er) intrinsic Josephson junctions. *Journal of Physics: Conference Series*, **2008**, 108, 012043	0.3	1
30	New synthesis and physical property of low resistivity boron-doped multi-walled carbon nanotubes. *Physica C: Superconductivity and Its Applications*, **2008**, 468, 1210-1213	1.3	4
29	Pressure effect of superconducting transition temperature for boron-doped diamond films. *Physica C: Superconductivity and Its Applications*, **2008**, 468, 1228-1230	1.3	4
28	Intrinsic Josephson properties of. *Physica C: Superconductivity and Its Applications*, **2008**, 468, 1922-1924	1.3	4
27	Intrinsic Josephson properties in (Hg, Re)Ba2Ca3Cu4O10+δ single crystals. *Physica C: Superconductivity and Its Applications*, **2008**, 468, 1925-1928	1.3	4
26	Anomalous Magnetic-Field-Hysteresis of Quantum Oscillations in κ-(BETS)2FeBr4. *Journal of Low Temperature Physics*, **2007**, 142, 531-534	1.3	4
25	Fermi surface and superconductivity in noncentrosymmetric CeRhSi3. *Physical Review B*, **2007**, 76,	3.3	28
24	Large positive magnetoresistance of insulating organic crystals in the non-ohmic region. *Physical Review Letters*, **2007**, 98, 116602	7.4	24
23	77Se NMR Evidence for the Jaccarino-Peter Mechanism in the Field Induced Superconductor, κ-(BETS)2FeCl4. *Journal of the Physical Society of Japan*, **2007**, 76, 124708	1.5	26
22	Fermi surface and interlayer transport in high-stage MoCl5 graphite intercalation compounds. *Physical Review B*, **2006**, 73,	3.3	15
21	Current-voltage characteristics of charge-ordered organic crystals. *Physical Review Letters*, **2006**, 96, 136602	7.4	43
20	Superconductor-insulator crossover in Josephson junction arrays due to reduction from two to one dimension. *Physical Review B*, **2006**, 73,	3.3	12
19	Vortex dynamics and the Fulde-Ferrell-Larkin-Ovchinnikov state in a magnetic-field-induced organic superconductor. *Physical Review Letters*, **2006**, 97, 157001	7.4	124
18	Current–voltage characteristics of a mesoscopic Josephson junction in a low-impedance environment. *Physica B: Condensed Matter*, **2005**, 359-361, 1442-1444	2.8	1
17	Excess resistance in the superconducting transition of a mesoscopic Al disk. *Physica E: Low-Dimensional Systems and Nanostructures*, **2005**, 29, 584-587	3	4
16	Finite-size effects on transverse magnetoresistance of NbSe3. *Physical Review B*, **2005**, 71,	3.3	2

15	Analysis of zero-bias resistance in overdamped mesoscopic Josephson junction chains. *Physica C: Superconductivity and Its Applications*, **2004**, 404, 256-259	1.3	
14	Experimental Studies on Cooper Pair Transport in Josephson Junction Arrays. *Journal of the Physical Society of Japan*, **2003**, 72, 96-99	1.5	1
13	Quantum fluctuations and dissipative phase transition in one-dimensional Josephson junction arrays. *Physica E: Low-Dimensional Systems and Nanostructures*, **2003**, 18, 41-42	3	
12	Dissipation and quantum fluctuations in 2D-array of small Josephson junctions. *Microelectronic Engineering*, **2002**, 63, 309-312	2.5	1
11	Quantum phase transition in one-dimensional arrays of resistively shunted small Josephson junctions. *Physical Review Letters*, **2002**, 89, 197001	7.4	30
10	Phase diagram for two-dimensional arrays of small Josephson junctions with shunt resistors. *Physica C: Superconductivity and Its Applications*, **2001**, 352, 181-185	1.3	4
9	Superconductor-insulator transition in a two-dimensional array of resistively shunted small josephson junctions. *Physical Review Letters*, **2000**, 85, 1974-7	7.4	50
8	Two-Dimensional Arrays of Small Josephson Junctions with Regular and Random Defects. *Journal of the Physical Society of Japan*, **1998**, 67, 729-731	1.5	8
7	Study on Superconductor-Insulator Transitions in Two-Dimensional Array of Small Josephson Junctions. *Journal of the Physical Society of Japan*, **1997**, 66, 2429-2436	1.5	
6	Superconductor-Insulator Transition in Two-Dimensional Network of Josephson Junctions. *Journal of the Physical Society of Japan*, **1996**, 65, 36-38	1.5	4
5	Measurement of Self Capacitance of Small Island Electrode via Single Electron Transistor. *Journal of the Physical Society of Japan*, **1996**, 65, 868-869	1.5	6
4	Edge Effect in Two-Dimensional Network of Small Josephson Junctions. *Journal of the Physical Society of Japan*, **1996**, 65, 2365-2366	1.5	4
3	Phase diagram for superconductor-insulator transitions in two-dimensional network of small tunnel junctions. *European Physical Journal D*, **1996**, 46, 693-694		1
2	Effect of finite system width in two-dimensional network of small tunnel junctions. *European Physical Journal D*, **1996**, 46, 695-696		
1	Capacitance dependence of critical tunneling resistance for superconductor-insulator transition in two-dimensional network of Josephson junctions. *Physica B: Condensed Matter*, **1996**, 227, 232-234	2.8	2