

# Toshiaki Enoki

## List of Publications by Year in descending order

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112  
papers

4,234  
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218677

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116  
docs citations

116  
times ranked

4216  
citing authors

#	ARTICLE	IF	CITATIONS
1	Anomalous spin relaxation in graphene nanostructures on the high temperature annealed surface of hydrogenated diamond nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 19209-19218.	2.8	0
2	Challenges for single molecule electronic devices with nanographene and organic molecules. Do single molecules offer potential as elements of electronic devices in the next generation?. <i>Physica Scripta</i> , 2018, 93, 053001.	2.5	10
3	Magnetism of Nanographene-Based Microporous Carbon and Its Applications: Interplay of Edge Geometry and Chemistry Details in the Edge State. <i>Physical Review Applied</i> , 2018, 9, .	3.8	9
4	Chemically induced topological zero mode at graphene armchair edges. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 5145-5154.	2.8	12
5	Direct imaging of monovacancy-hydrogen complexes in a single graphitic layer. <i>Physical Review B</i> , 2014, 89, .	3.2	44
6	Role of edge geometry and chemistry in the electronic properties of graphene nanostructures. <i>Faraday Discussions</i> , 2014, 173, 173-199.	3.2	58
7	Magnetic Torque Studies of $\hat{p}$ -System $\hat{p}$ -(BDH-TTP) <sub>2</sub> FeX <sub>4</sub> (X = Br, Cl). <i>Journal of the Physical Society of Japan</i> , 2014, 83, 023704.	1.6	4
8	Combined Experimental and DFT Study of the Chemical Binding of Copper Ions on the Surface of Nanodiamonds. <i>Bulletin of the Chemical Society of Japan</i> , 2014, 87, 693-704.	3.2	22
9	Nanographene and Graphene Edges: Electronic Structure and Nanofabrication. <i>Accounts of Chemical Research</i> , 2013, 46, 2202-2210.	15.6	134
10	Electron transport properties of graphene with charged impurities and vacancy defects. <i>Journal of Materials Research</i> , 2013, 28, 1097-1104.	2.6	8
11	Magnetic and Transport Properties of $\hat{p}$ -System $\hat{p}$ -(BDH-TTP) <sub>2</sub> FeCl <sub>4</sub> . <i>Journal of the Physical Society of Japan</i> , 2013, 82, 124709.	1.6	4
12	Visualization of electronic states on atomically smooth graphitic edges with different types of hydrogen termination. <i>Physical Review B</i> , 2013, 87, .	3.2	41
13	Crystal Structure and Physical Properties of $\hat{p}$ -System $\hat{p}$ -(BDH-TTP) <sub>2</sub> FeBr <sub>4</sub> . <i>Journal of the Physical Society of Japan</i> , 2013, 82, 054706.	1.6	8
14	Interplay of Edge-State Spins and $\hat{f}$ -Dangling Bond Spins in the Magnetic Structure of Nanographene. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2012, 20, 310-318.	2.1	1
15	Magnetic Edge State of Nanographene and Unconventional Nanographene-Based Host-Guest Systems. <i>Bulletin of the Chemical Society of Japan</i> , 2012, 85, 249-264.	3.2	12
16	Magnetic Properties and Interplay between Nanographene Host and Nitric Acid Guest in Nanographene-Based Nanoporous Carbon. <i>Bulletin of the Chemical Society of Japan</i> , 2012, 85, 376-388.	3.2	2
17	Electron Wave Function in Armchair Graphene Nanoribbons. <i>Journal of the Physical Society of Japan</i> , 2011, 80, 044710.	1.6	26
18	Magnetic edge state and dangling bond state of nanographene in activated carbon fibers. <i>Physical Review B</i> , 2011, 84, .	3.2	35

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19	Diagnostics of plasmon resonance in optical absorption spectra of nanographite aqueous suspensions. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2011, 111, 220-223.	0.6	3
20	Magnetic Structures of Edge-State Spins in Nanographene and a Network of Nanographene Sheets. , 2011, , 151-166.		0
21	Electronic states of graphene nanoribbons and analytical solutions. Science and Technology of Advanced Materials, 2010, 11, 054504.	6.1	336
22	Classes of Nanomagnets Created from Alkanethiolâ€‘Coated Pt or Pd Nanoparticles and Their Alloys with Co. European Journal of Inorganic Chemistry, 2010, 2010, 4279-4287.	2.0	6
23	Structure and magnetic properties of detonation nanodiamond chemically modified by copper. Journal of Applied Physics, 2010, 107, .	2.5	45
24	Mechanical compression induced short-range ordering of nanographene spins. Physical Review B, 2010, 82, .	3.2	7
25	Honeycomb superperiodic pattern and its fine structure near the armchair edge of graphene observed by low-temperature scanning tunneling microscopy. Physical Review B, 2010, 81, .	3.2	41
26	Electric field induced sp <sup>3</sup> -to-sp <sup>2</sup> conversion and nonlinear electron transport in iron-doped diamond-like carbon thin film. Journal of Applied Physics, 2010, 107, .	2.5	13
27	The edge state of nanographene and the magnetism of the edge-state spins. Solid State Communications, 2009, 149, 1144-1150.	1.9	126
28	Nanographene and Nanodiamond; New Members in the Nanocarbon Family. Chemistry - an Asian Journal, 2009, 4, 796-804.	3.3	50
29	Structure and physical properties of isopropyl TTF semisquarates. New Journal of Chemistry, 2009, 33, 1249.	2.8	5
30	Ï€â€‘d INTERACTION BASED MOLECULAR CONDUCTING MAGNETS: HOW TO INCREASE THE EFFECTS OF THE Ï€â€‘d INTERACTION. , 2009, , 173-182.		0
31	Unconventional electronic and magnetic functions of nanographene-based hostâ€‘guest systems. Dalton Transactions, 2008, , 3773.	3.3	45
32	Ï€â€‘d INTERACTION BASED MOLECULAR CONDUCTING MAGNETS: HOW TO INCREASE THE EFFECTS OF THE Ï€â€‘d INTERACTION. Cosmos, 2008, 04, 131-140.	0.4	1
33	Pd Nanoparticle Embedded with Only One Co Atom Behaves as a Single-Particle Magnet. Journal of the Physical Society of Japan, 2008, 77, 103701.	1.6	10
34	Molecular Electronics under Electrochemical Environment. Hyomen Kagaku, 2008, 29, 253-259.	0.0	0
35	STM/STS Observations of Graphene Edges. Hyomen Kagaku, 2008, 29, 304-309.	0.0	1
36	Origin of Current Enhancement through a Ferrocenylundecanethiol Island Embedded in Alkanethiol SAMs by Using Electrochemical Potential Control. Journal of Physical Chemistry C, 2007, 111, 7561-7564.	3.1	38

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37	Electronic structures of graphene edges and nanographene. <i>International Reviews in Physical Chemistry</i> , 2007, 26, 609-645.	2.3	228
38	Physical Properties of $\pi$ -d Interaction-Based Molecular Conducting Magnet (EDO-TTFBr <sub>2</sub> ) <sub>2</sub> FeCl <sub>4</sub> Under Pressure. <i>Journal of Low Temperature Physics</i> , 2007, 142, 481-484.	1.4	0
39	Pressure Effect on BDA-TTP Conductors. <i>Journal of Low Temperature Physics</i> , 2007, 142, 243-249.	1.4	0
40	STM/STS observations of zigzag and armchair edges of graphite. <i>Tanso</i> , 2007, 2007, 166-173.	0.1	1
41	Magnetic Properties of Hydrogen-Terminated Surface Layer of Diamond Nanoparticles. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2006, 14, 565-572.	2.1	12
42	Pressure effect on BDA-TTP conductors. <i>Journal of Low Temperature Physics</i> , 2006, 142, 239-245.	1.4	0
43	Physical properties of $\pi$ -d interaction-based molecular conducting magnet (EDO-TTFBr <sub>2</sub> ) <sub>2</sub> FeCl <sub>4</sub> under pressure. <i>Journal of Low Temperature Physics</i> , 2006, 142, 477-480.	1.4	4
44	Edge state on hydrogen-terminated graphite edges investigated by scanning tunneling microscopy. <i>Physical Review B</i> , 2006, 73, .	3.2	366
45	Electronic and Magnetic Properties of $\pi$ -d Interaction System (EDTDM) <sub>2</sub> FeBr <sub>4</sub> . <i>Journal of the Physical Society of Japan</i> , 2005, 74, 1508-1520.	1.6	21
46	Magnetic nanographite: an approach to molecular magnetism. <i>Journal of Materials Chemistry</i> , 2005, 15, 3999.	6.7	117
47	$\pi$ -d Interaction-Based Molecular Magnets: Role of Sulfur-to-Selenium Substitution. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2005, 180, 883-890.	1.6	0
48	Observation of zigzag and armchair edges of graphite using scanning tunneling microscopy and spectroscopy. <i>Physical Review B</i> , 2005, 71, .	3.2	593
49	Diamond-to-graphite conversion in nanodiamond and the electronic properties of nanodiamond-derived carbon system. <i>Physics of the Solid State</i> , 2004, 46, 651-656.	0.6	23
50	Multiproperty Molecular Materials: TTF-Based Conducting and Magnetic Molecular Materials. <i>European Journal of Inorganic Chemistry</i> , 2004, 2004, 933-941.	2.0	165
51	Magnetic TTF-Based Charge-Transfer Complexes. <i>Chemical Reviews</i> , 2004, 104, 5449-5478.	47.7	313
52	Magnetic Phase Diagram of Three-Dimensional Diluted Ising Antiferromagnet Ni <sub>0.8</sub> Mg <sub>0.2</sub> (OH) <sub>2</sub> . <i>Journal of the Physical Society of Japan</i> , 2004, 73, 206-215.	1.6	2
53	Interface Effect on the Electronic Structure of Alkanethiol-Coated Platinum Nanoparticles. <i>Journal of Physical Chemistry B</i> , 2003, 107, 10134-10140.	2.6	49
54	PROPERTY OF SELF-ASSEMBLED MONOLAYERS OF LONG-ALKYL-CHAIN-SUBSTITUTED TTF DIRIVATIVE. <i>Molecular Crystals and Liquid Crystals</i> , 2003, 407, 121-127.	0.9	7

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55	STRUCTURE AND ELECTRONIC PROPERTIES OF SP <sup>2</sup> /SP <sup>3</sup> MIXED NANO-CARBON SYSTEMS. <i>Molecular Crystals and Liquid Crystals</i> , 2002, 386, 145-149.	0.9	1
56	Electrochemical Properties of Self-Assembled Monolayers Composed of TTF Derivative. <i>Molecular Crystals and Liquid Crystals</i> , 2002, 377, 395-398.	0.9	2
57	Conducting Materials Containing Paramagnetic Hexacyanometallate [Cr(CN) <sub>6</sub> ] <sup>3-</sup> and Iodine Substituted Organic Donor [DIETS]. <i>Molecular Crystals and Liquid Crystals</i> , 2002, 376, 25-32.	0.9	20
58	Millimeter Wave ESR Measurements of (DMET) <sub>2</sub> FeBr <sub>4</sub> . <i>Molecular Crystals and Liquid Crystals</i> , 2002, 379, 29-34.	0.9	1
59	Magnetism in New Classes of TTF-Based Charge Transfer Complexes. <i>Molecular Crystals and Liquid Crystals</i> , 2002, 379, 131-140.	0.9	3
60	Electronic and Magnetic Properties of $\pi$ -d Interaction System: (EDTDM) <sub>2</sub> FeBr <sub>4</sub> . <i>Molecular Crystals and Liquid Crystals</i> , 2002, 376, 513-518.	0.9	10
61	$\pi$ -d Interaction-Based Molecular Magnets in TTF-Type Salts. <i>Molecular Crystals and Liquid Crystals</i> , 2002, 376, 535-542.	0.9	9
62	Preparation of a Mott insulator based on a BEDT-TTF charge transfer complex of hydrogen cyananilate: I <sup>-</sup> -(BEDT-TTF) <sub>2</sub> HCNAl. <i>Journal of Materials Chemistry</i> , 2001, 11, 2211-2215.	6.7	27
63	Magnetic Anisotropy of Cerium Endohedral Metallofullerene. <i>Materials Research Society Symposia Proceedings</i> , 2001, 706, 1.	0.1	0
64	Characterization and Electronic Properties of TTF SAMs on Au (111). <i>Molecular Crystals and Liquid Crystals</i> , 2001, 370, 273-276.	0.3	5
65	Effect of Fluorination on Nano-Sized $\pi$ -Electron Systems. <i>Journal of the Physical Society of Japan</i> , 2001, 70, 175-185.	1.6	39
66	Structure and Solid State Properties of Nano-Graphite Derived from Nano-Diamond. <i>Tanso</i> , 2001, 2001, 139-146.	0.1	0
67	Anomalous Angular Dependence of Magnetoresistance in MCl <sub>2</sub> -GIC's (M=Cu and Co). <i>Molecular Crystals and Liquid Crystals</i> , 2000, 340, 19-24.	0.3	0
68	Successive Magnetic Phase Transitions of Cu <sub>c</sub> /Co <sub>1-c</sub> Cl <sub>2</sub> -FeCl <sub>3</sub> Graphite bi-intercalation Compounds. <i>Molecular Crystals and Liquid Crystals</i> , 2000, 340, 107-112.	0.3	1
69	Heat-treatment effect on the nanosized graphite $\pi$ -electron system during diamond to graphite conversion. <i>Physical Review B</i> , 2000, 62, 11209-11218.	3.2	117
70	Disordered Magnetism at the Metal-Insulator Threshold in Nano-Graphite-Based Carbon Materials. <i>Physical Review Letters</i> , 2000, 84, 1744-1747.	7.8	309
71	Nano-Graphites and their Potassium Intercalated Compounds: Structural and Electronic Properties. <i>Molecular Crystals and Liquid Crystals</i> , 2000, 340, 793-798.	0.3	2
72	<sup>129</sup> I Mössbauer Effect of Iodine Absorbed in Activated Carbon Fibers. <i>Molecular Crystals and Liquid Crystals</i> , 2000, 340, 301-306.	0.3	6

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73	Fluorine-Introduced $sp^3$ -Carbon Sites in a Nano-Sized $\pi$ -Electron System and their Effects on the Electronic Properties. <i>Molecular Crystals and Liquid Crystals</i> , 2000, 340, 289-294.	0.3	19
74	Novel Molecular Magnets Based on Organic Complexes. <i>Molecular Crystals and Liquid Crystals</i> , 1999, 334, 379-388.	0.3	6
75	$^{57}\text{Fe}$ Mössbauer spectroscopic and magnetic study of a spin-crossover polymer complex, $\text{Fe}(\text{3-chloropyridine})_2\text{Ni}(\text{CN})_4$ . <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 1999, 239, 285-290.	1.5	29
76	Magnetic Properties of $(\text{C}_{10}\text{TEX-TTF})\text{FeBr}_4(\text{X}=\text{S, Se})$ . <i>Molecular Crystals and Liquid Crystals</i> , 1999, 335, 293-302.	0.3	12
77	Transport Properties and Magnetism of $\hat{\Gamma}^2$ - $\text{MnO}_2$ . <i>Materials Research Society Symposia Proceedings</i> , 1999, 602, 17.	0.1	1
78	Magnetic Properties of Activated Carbon Fibers and their Iodine-Doping Effect. <i>Molecular Crystals and Liquid Crystals</i> , 1998, 310, 273-278.	0.3	10
79	The Contribution of Intercalate to the Electronic Structure and Transport Properties for Potassium-Oxygen-Graphite Intercalation Compounds. <i>Molecular Crystals and Liquid Crystals</i> , 1998, 310, 243-248.	0.3	0
80	Structure and electronic properties of graphite nanoparticles. <i>Physical Review B</i> , 1998, 58, 16387-16395.	3.2	229
81	The c-Axis Magnetoresistance and Thermoelectric Power of $\text{CuCl}_2$ Graphite Intercalation Compounds. <i>Molecular Crystals and Liquid Crystals</i> , 1998, 310, 249-254.	0.3	2
82	$2k_{\text{FCDW}}$ Transition in $\hat{\Gamma}^2$ - $(\text{BEDT-TTF})_2\text{PF}_6$ Family Salts. <i>Journal of the Physical Society of Japan</i> , 1998, 67, 4193-4197.	1.6	9
83	Host-Guest Systems in Microporous Carbons. <i>Materials Research Society Symposia Proceedings</i> , 1998, 548, 3.	0.1	1
84	Molecular Antiferromagnets Based on TTF-TYPE Radical Ion Salts. <i>Molecular Crystals and Liquid Crystals</i> , 1997, 305, 425-434.	0.3	16
85	Preparation and Properties of New Multi-Spin Complexes. <i>Molecular Crystals and Liquid Crystals</i> , 1997, 306, 409-414.	0.3	10
86	DV-XPS Calculation and Ultraviolet Photoelectron Spectra of Gold Trichloride-Graphite Intercalation Compound ( $\text{AuCl}_3\text{-GIC}$ ). <i>Journal of the Physical Society of Japan</i> , 1997, 66, 3424-3433.	1.6	8
87	Preparation and Properties of 2-(O-Halophenyl)- $\hat{\Gamma}^2$ -Nitronyl Nitroxides. <i>Molecular Crystals and Liquid Crystals</i> , 1997, 306, 279-284.	0.3	9
88	Magnetic Properties of Adsorbed Oxygen in Microporous Carbon. <i>Molecular Crystals and Liquid Crystals</i> , 1997, 306, 103-110.	0.3	7
89	Magnetic and Transport Properties of Heat-Treated Polyparaphenylene-Based Carbons. <i>Materials Research Society Symposia Proceedings</i> , 1997, 496, 533.	0.1	0
90	Galvanomagnetic, Optical Properties and Ultraviolet Photoelectron Spectra of Potassium-Oxygen-Graphite Intercalation Compounds. <i>Journal of the Physical Society of Japan</i> , 1997, 66, 158-168.	1.6	4

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91	Molecular Magnets Based on Charge Transfer Complexes. Molecular Crystals and Liquid Crystals, 1996, 285, 19-26.	0.3	9
92	Varieties of Crystalline Architecture by Using Hydrogen Bonding in Biimidazolate Metal Complex Systems. Part 1: Dimer Complex. Molecular Crystals and Liquid Crystals, 1996, 278, 199-207.	0.3	3
93	Synthesis, Structure and Magnetic Properties of a Two- Dimensional Nickel(II) Coordination Polymer, $\{[\text{Ni}(\text{pzdc})(\text{pyz})] \cdot 2\text{H}_2\text{O}\}_n$ ( $\text{H}_2\text{pzdc}$ = pyrazine-2,3-dicarboxylic acid;) Tj ETQq1.1 0.784314 rgBT	1.1	0
94	Preparation and properties of Aromatic Compounds Bearing Substituents with Unpaired Electron. Molecular Crystals and Liquid Crystals, 1996, 279, 73-76.	0.3	5
95	Conduction Properties of Incommensurate Misfit Layer Compounds $(\text{CeS})_{1.19}(\text{TiS}_2)_n$ ( $n=1,2$ ). Journal of the Physical Society of Japan, 1995, 64, 4296-4307.	1.6	19
96	c-Axis Compressibility and Thermal Expansion of Gold Trichloride-Graphite Intercalation Compounds ( $\text{AuCl}_3$ -GICs). Journal of the Physical Society of Japan, 1995, 64, 4748-4758.	1.6	0
97	Anomalous Spin-Lattice Relaxation Induced by Helium Gas in Microporous Carbon. Journal of the Physical Society of Japan, 1995, 64, 2614-2620.	1.6	16
98	Preparation and Properties of a Hydroxy-TEMPO-Substituted TTF and ITS CT Complexes. Molecular Crystals and Liquid Crystals, 1995, 268, 153-159.	0.3	13
99	Thermal Expansion of Tetrakis(alkylthio) tetrathiafulvalenes. Molecular Crystals and Liquid Crystals, 1995, 268, 161-172.	0.3	9
100	H-NMR study of magnetic anomaly in $(\text{BEDT-TTF})_3/\text{CuBr}_4$ , 1994, , .		0
101	Syntheses and properties of hydroxy-tempo-substituted and phenoxy-substituted TTF derivatives. , 1994, , .		0
102	Magnetism in Incommensurate Layer Compounds $(\text{RES})_x\text{VS}_2$ ( $\text{Re}=\text{Rare}$ ) Tj ETQq0.0.0 rgBT 4/Overlock 1	0.3	4
103	Novel Structure of Microporous Activated Carbon Fibers and Their Gas Adsorption. Materials Research Society Symposia Proceedings, 1994, 349, 73.	0.1	5
104	Electronic Structures of Sodium-Hydride-Graphite Intercalation Compounds. Molecular Crystals and Liquid Crystals, 1994, 245, 7-12.	0.3	0
105	Electronic Structure and Transport Prperties of $\text{AuCl}_3$ -GIC. Molecular Crystals and Liquid Crystals, 1994, 245, 1-6.	0.3	3
106	Electronic Structures of Incommensurate Layered Compounds $(\text{MS})_x\text{TaS}_2$ ( $\text{M}=\text{RARE EARTHS, Pb, Sn}$ ). Molecular Crystals and Liquid Crystals, 1994, 245, 43-48.	0.3	3
107	ESR study of activated carbon fibers: preliminary results. Journal of Materials Research, 1993, 8, 2282-2287.	2.6	21
108	Solid State Properties of Charge Transfer Complexes of TTF Derivatives with 3D-Transition Metal Halides. Molecular Crystals and Liquid Crystals, 1993, 233, 325-334.	0.3	17

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109	Effects of Alkali Substitution and Pressure on the Charge-Density Wave Transitions of Two-Dimensional Metals $K_3Cu_8S_6$ and $Rb_3Cu_8S_6$ . Journal of the Physical Society of Japan, 1993, 62, 647-658.	1.6	12
110	Electronic Properties of Sodium-Hydride and Potassium-Mercury Ternary Graphite Intercalation Compounds. Molecular Crystals and Liquid Crystals, 1992, 216, 253-258.	0.3	6
111	Thermal Properties of Tetrakis(Alkyltelluro)Tetrathiafulvalene ( $TTeC_n$ -TTF). Molecular Crystals and Liquid Crystals, 1991, 196, 167-175.	0.7	4
112	Hydrogen-alkali-metal-graphite ternary intercalation compounds. Journal of Materials Research, 1990, 5, 435-466.	2.6	91