

# Katsuhisa Taguchi

## List of Publications by Year in descending order

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23  
papers

386  
citations

840776

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h-index

752698

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g-index

23  
all docs

23  
docs citations

23  
times ranked

594  
citing authors

#	ARTICLE	IF	CITATIONS
1	Spin Hall conductivity in topological Dirac semimetals. <i>Physical Review B</i> , 2020, 101, .	3.2	10
2	Unconventional gate voltage dependence of the charge conductance caused by spin-splitting Fermi surface by Rashba-type spin-orbit coupling. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2019, 114, 113615.	2.7	4
3	Spin-orbit coupling induced valley Hall effects in transition-metal dichalcogenides. <i>Communications Physics</i> , 2019, 2, .	5.3	56
4	Tunneling Conductance in Two-Dimensional Junctions between a Normal Metal and a Ferromagnetic Rashba Metal. <i>Journal of the Physical Society of Japan</i> , 2018, 87, 034710.	1.6	7
5	Valley Edelstein effect in monolayer transition-metal dichalcogenides. <i>Physical Review B</i> , 2018, 98, .	3.2	14
6	Electromagnetic effects induced by a time-dependent axion field. <i>Physical Review B</i> , 2018, 97, .	3.2	15
7	Spin and charge transport induced by a twisted light beam on the surface of a topological insulator. <i>Physical Review B</i> , 2016, 93, .	3.2	10
8	Photovoltaic chiral magnetic effect in Weyl semimetals. <i>Physical Review B</i> , 2016, 93, .	3.2	61
9	Josephson current in a normal-metal nanowire coupled to a superconductor/ferromagnet/superconductor junction. <i>Physical Review B</i> , 2016, 93, .	3.2	9
10	Photovoltaic anomalous Hall effect in line-node semimetals. <i>Physical Review B</i> , 2016, 94, .	3.2	51
11	Electromagnetic effect on disordered surface of topological insulators. <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 400, 188-190.	2.3	1
12	Theory of tunneling conductance of anomalous Rashba metal/superconductor junctions. <i>Physical Review B</i> , 2015, 92, .	3.2	11
13	Spin-charge transport driven by magnetization dynamics on the disordered surface of doped topological insulators. <i>Physical Review B</i> , 2015, 92, .	3.2	14
14	Axial current driven by magnetization dynamics in Dirac semimetals. <i>Physical Review B</i> , 2015, 91, .	3.2	11
15	Giant magnetoresistance in the junction of two ferromagnets on the surface of diffusive topological insulators. <i>Physical Review B</i> , 2014, 89, .	3.2	27
16	Equilibrium axial current due to a static localized spin in Weyl semimetals. <i>Journal of Physics: Conference Series</i> , 2014, 568, 052032.	0.4	1
17	Inverse faraday effect driven by spin chirality in weak ferromagnets. <i>Journal of the Korean Physical Society</i> , 2013, 62, 1759-1762.	0.7	1
18	Proposal for an active electromagnetic metamaterial based on spin-torque oscillators. <i>Physical Review B</i> , 2013, 87, .	3.2	7

#	ARTICLE	IF	CITATIONS
19	Ultrafast Magnetic Vortex Core Switching Driven by the Topological Inverse Faraday Effect. Physical Review Letters, 2012, 109, 127204.	7.8	23
20	Monopoles in ferromagnetic metals. Journal of the Korean Physical Society, 2012, 61, 1331-1348.	0.7	6
21	Theory of inverse Faraday effect in a disordered metal in the terahertz regime. Physical Review B, 2011, 84, .	3.2	22
22	Theory of spin relaxation torque in metallic ferromagnets. Physical Review B, 2010, 82, .	3.2	9
23	Anomalous Hall conductivity due to vector spin chirality in the weak coupling regime. Physical Review B, 2009, 79, .	3.2	16