Hiroshi Akera

List of Publications by Year
in descending order

21 papers	146 citations	1163117 8 h-index	1199594 12 g-index
21 all docs	21 docs citations	21 times ranked	69 citing authors

#	Article	IF	Citations
1	Spatial Distributions of Electron Temperature in Quantum Hall Systems with Compressible and Incompressible Strips. Journal of the Physical Society of Japan, 2006, 75, 064701.	1.6	17
2	Extrinsic spin Nernst effect in two-dimensional electron systems. Physical Review B, 2013, 87, .	3.2	15
3	Electronic Processes at the Breakdown of the Quantum Hall Effect. Journal of the Physical Society of Japan, 2000, 69, 3174-3177.	1.6	14
4	Hydrodynamic Equations in Quantum Hall Systems at Large Currents. Journal of the Physical Society of Japan, 2002, 71, 228-236.	1.6	13
5	Thermohydrodynamics in Quantum Hall Systems. Journal of the Physical Society of Japan, 2005, 74, 997-1005.	1.6	12
6	Self-Consistent Calculation of the Charging Energy in a Quantum Dot Coupled to Leads. Journal of the Physical Society of Japan, 1997, 66, 15-18.	1.6	11
7	Spin relaxation in a quantum well by phonon scatterings. Physical Review B, 2015, 92, .	3.2	9
8	Gate-voltage-induced switching of the Rashba spin-orbit interaction in a composition-adjusted quantum well. Physical Review B, 2017, 95, .	3.2	9
9	Orbital and spin polarizations induced by current through a helical atomic chain. Physical Review B, 2021, 104, .	3.2	8
10	Hydrodynamic Equation for the Breakdown of the Quantum Hall Effect in a Uniform Current. Journal of the Physical Society of Japan, 2001, 70, 1468-1471.	1.6	7
11	Antiparallel spin Hall current in a bilayer with skew scattering. Physical Review B, 2019, 100, .	3.2	6
12	D'yakonov-Perel' spin relaxation in a bilayer with local structural inversion asymmetry. Physical Review B, 2020, 101, .	3.2	5
13	Spatial Distributions of Electron Temperature in Quantum Hall Systems with Slowly-Varying Confining Potentials. Journal of the Physical Society of Japan, 2005, 74, 2069-2075.	1.6	3
14	Controlling Rashba spinâ€“orbit interaction in quantum wells by adding symmetric potential. Applied Physics Express, 2017, 10, 063007.	2.4	3
15	Gate-Voltage-Induced Switching of the Spin-Relaxation Rate in a Triple-Quantum-Well Structure. Physical Review Applied, 2020, 13, .	3.8	3
16	AC response of spin-pseudospin current in a double quantum well. Japanese Journal of Applied Physics, 2022, 61, 063002.	1.5	3
17	Spin relaxation in a zinc-blende (110) symmetric quantum well withÎ´doping. Physical Review B, 2014, 89, .	3.2	2
18	Slow Dynamics in the Breakdown of the Quantum Hall Effect. Journal of the Physical Society of Japan, 2009, 78, 023708.	1.6	2

#	Article	IF	Citations
19	Diagonal Conductivity due to Tunneling in Quantum Hall Systems in the High Electron-Temperature Regime. Journal of the Physical Society of Japan, 2002, 71, 1712-1715.	1.6	2
20	Suppressing effective magnetic field and spin-relaxation rate by tuning barrier compositions in a (111) quantum well. Japanese Journal of Applied Physics, 2020, 59, 100901.	1.5	1
21	Spin splitting of the conduction band by exchange interaction in the valence band through a <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>k</mml:mi><mml:mo>Â·</mml:mo><mml:mi>p</mml:m interband process in ferromagnetic semiconductors. Physical Review B, 2022, 105, .	3.2	1