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	AC response of spin-pseudospin current in a double quantum well. Japanese Journal of Applied Physics, 2022, 61, 063002.	1.5	3
2	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:mi interband process in ferromagnetic semiconductors. Physical Review B, 2022, 105, .	3.2	1
3	Orbital and spin polarizations induced by current through a helical atomic chain. Physical Review B, 2021, 104, .	3.2	8
4	D'yakonov-Perel' spin relaxation in a bilayer with local structural inversion asymmetry. Physical Review B, 2020, 101, .	3.2	5
5	Gate-Voltage-Induced Switching of the Spin-Relaxation Rate in a Triple-Quantum-Well Structure. Physical Review Applied, 2020, 13, .	3.8	3
6	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
7	Antiparallel spin Hall current in a bilayer with skew scattering. Physical Review B, 2019, 100, .	3.2	6
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	Controlling Rashba spinâ€“orbit interaction in quantum wells by adding symmetric potential. Applied Physics Express, 2017, 10, 063007.	2.4	3
10	Spin relaxation in a quantum well by phonon scatterings. Physical Review B, 2015, 92, .	3.2	9
11	Spin relaxation in a zinc-blende (110) symmetric quantum well withÎ´doping. Physical Review B, 2014, 89, .	3.2	2
12	Extrinsic spin Nernst effect in two-dimensional electron systems. Physical Review B, 2013, 87, .	3.2	15
13	Slow Dynamics in the Breakdown of the Quantum Hall Effect. Journal of the Physical Society of Japan, 2009, 78, 023708.	1.6	2
14	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
15	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
16	Thermohydrodynamics in Quantum Hall Systems. Journal of the Physical Society of Japan, 2005, 74, 997-1005.	1.6	12
17	Hydrodynamic Equations in Quantum Hall Systems at Large Currents. Journal of the Physical Society of Japan, 2002, 71, 228-236.	1.6	13
18	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

#	Article	IF	Citations
19	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
20	Electronic Processes at the Breakdown of the Quantum Hall Effect. Journal of the Physical Society of Japan, 2000, 69, 3174-3177.	1.6	14
21	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