

# Makoto Kohda

## List of Publications by Year in descending order

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121  
papers

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times ranked

1731  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Thickness dependence of spin-orbit torques in Pt/Co structures on epitaxial substrates. APL Materials, 2022, 10, .  | 5.1  | 5         |
| 2  | Anisotropic spin dynamics in semiconductor narrow wires from the interplay between spin-orbit interaction and planar magnetic field. Physical Review B, 2022, 105, .  | 3.2  | 2         |
| 3  | Dmitriyakov, Perel and Elliott-Yafet spin relaxation rates in InGaAs/InAlAs multiple quantum wells at room temperature. Applied Physics Express, 2022, 15, 043001.  | 2.4  | 2         |
| 4  | Efficient spin-orbit torque in magnetic trilayers using all three polarizations of a spin current. Nature Electronics, 2022, 5, 217-223.  | 26.0 | 28        |
| 5  | Anisotropic Spin-Orbit Torque through Crystal-Orientation Engineering in Epitaxial $\text{Pt}/\text{InGaAs}/\text{InAlAs}$ Multiple Quantum Wells. Physical Review Applied, 2021, 15, .                     | 3.8  | 13        |
| 6  | Control of spin relaxation anisotropy by spin-orbit-coupled diffusive spin motion. Physical Review B, 2021, 103, .  | 3.2  | 10        |
| 7  | Origin of spin-orbit torque in single-layer CoFeB investigated via in-plane harmonic Hall measurements. AIP Advances, 2021, 11, 025033.   | 1.3  | 10        |
| 8  | Full spin-orbit coefficient in III-V semiconductor wires based on the anisotropy of weak localization under in-plane magnetic field. Physical Review B, 2021, 103, .  | 3.2  | 6         |
| 9  | Distinguishing persistent effects in an undoped GaAs/AlGaAs quantum well by top-gate-dependent illumination. Journal of Applied Physics, 2021, 129, 234301.   | 2.5  | 3         |
| 10 | Room-temperature spin-orbit magnetic fields in slightly misoriented (110) InGaAs/InAlAs multiple quantum wells. Applied Physics Letters, 2021, 119, 032405.   | 3.3  | 3         |
| 11 | Intravalley scattering probed by excitation energy dependence of valley polarization in monolayer $\text{MoS}_2$ . Journal Physics D: Applied Physics, 2021, 54, 485304.                                    | 2.8  | 4         |
| 12 | Spintronic Terahertz Emission and Magnetic Anisotropy of Epitaxial Platinum Heterostructures on MgO(110) Substrate. , 2021, , .   |      | 0         |
| 13 | Reliable modeling of weak antilocalization for accurate spin-lifetime extraction. Physical Review B, 2021, 104, .   | 3.2  | 1         |
| 14 | Detection of Spin Transfer from Metal to Molecule by Magnetoresistance Measurement. Nano Letters, 2020, 20, 75-80.  | 9.1  | 3         |
| 15 | Room-temperature perpendicular magnetic anisotropy of Pt/Co/AlOx trilayers on SrTiO3 (001). AIP Advances, 2020, 10, 105010.   | 1.3  | 0         |
| 16 | Disentanglement of Spin-Orbit Torques in $\text{Pt}/\text{Co}/\text{InGaAs}/\text{InAlAs}$ Bilayers with the Presence of Spin Hall Effect and Rashba-Edelstein Effect. Physical Review Applied, 2020, 13, . | 3.8  | 38        |
| 17 | Spin-orbit parameters derivation using single-frequency analysis of InGaAs multiple quantum wells in transient spin dynamics regime. Journal of Applied Physics, 2020, 127, 153901.                         | 2.5  | 2         |
| 18 | Enhanced longevity of the spin helix in low-symmetry quantum wells. Physical Review B, 2020, 101, .   | 3.2  | 12        |

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|----|--|-----|-----------|
| 19 | Current direction dependent spin Hall magnetoresistance in epitaxial Pt/Co bilayers on MgO(110). Physical Review B, 2020, 101, .   | 3.2 | 14        |
| 20 | Anomalous Spin-Orbit Field via the Rashba-Edelstein Effect at the $W$ Interface. Physical Review Applied, 2020, 13, .  | 3.8 | 12        |
| 21 | Spin accumulation in photo-induced potential dimples generated in semiconductors. Communications Physics, 2020, 3, .   | 5.3 | 1         |
| 22 | Temperature and laser energy dependence of the electron g-factor in intrinsic InGaAs/InAlAs multiple quantum wells. Applied Physics Letters, 2019, 115, 012404.            | 3.3 | 1         |
| 23 | Temperature-dependent spin Hall effect tunneling spectroscopy in platinum. Applied Physics Letters, 2019, 115, .   | 3.3 | 9         |
| 24 | Irradiation Effects on Induced Electron Conductivity in an un-doped GaAs/AlGaAs Quantum Well Hall Bar. , 2019, , .   |     | 0         |
| 25 | Simultaneous evaluation of drift- and diffusion-induced spin-orbit fields in a (001) GaAs/AlGaAs two-dimensional electron gas. Applied Physics Letters, 2019, 115, 052402. | 3.3 | 7         |
| 26 | Evaluation of spin-orbit torque in a $L1_{0-FePt}$ single layer and a $L1_{0-FePt/Pt}$ bilayer. Japanese Journal of Applied Physics, 2019, 58, 060915.                     | 1.5 | 5         |
| 27 | Detection of both optical polarization and coherence transfers to excitonic valley states in CVD-grown monolayer $MoS_2$ . Applied Physics Express, 2019, 12, 063005.      | 2.4 | 5         |
| 28 | Enhancement of spin current generation in epitaxial $\hat{I}_z$ -Ta/CoFeB bilayer. Physical Review B, 2019, 99, .  | 3.2 | 22        |
| 29 | Crystal orientation dependence of spin-orbit torques in Co/Pt bilayers. Applied Physics Letters, 2019, 114, .  | 3.3 | 21        |
| 30 | Spin-momentum locked spin manipulation in a two-dimensional Rashba system. Scientific Reports, 2019, 9, 1909.  | 3.3 | 13        |
| 31 | Ballistic spin locking in a two-dimensional Rashba system. , 2019, , .   |     | 0         |
| 32 | Simultaneous extraction of Rashba and Dresselhaus spin-orbit coefficients in GaAs/AlGaAs (110) two-dimensional electron gas. , 2019, , .                                   |     | 0         |
| 33 | Transient diffusive spin dynamics in intrinsic InGaAs/InAlAs multiple quantum wells. Applied Physics Letters, 2019, 115, 172406.   | 3.3 | 8         |
| 34 | Phase velocity of drifting spin wave packets in semiconductor two-dimensional electron gas. Applied Physics Express, 2019, 12, 013001.                                     | 2.4 | 7         |
| 35 | Diffusive spin dynamics in 10 nm wide InGaAs/InAlAs quantum wells. , 2019, , .   |     | 0         |
| 36 | Enhancement of spin-orbit interaction of Cu thin films by oxidation treatment. Applied Physics Express, 2018, 11, 033001.  | 2.4 | 7         |

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|----|---|------|-----------|
| 37 | Effect of optical waveguide on photoluminescence polarization in layered material GaSe with millimeter scale. Japanese Journal of Applied Physics, 2018, 57, 020308.  | 1.5  | 6         |
| 38 | Spatial variation of dynamic nuclear spin polarization probed by the non-local Hanle effect. Applied Physics Letters, 2018, 112, 132403.                              | 3.3  | 1         |
| 39 | Robustness of a persistent spin helix against a cubic Dresselhaus field in (001) and (110) oriented two-dimensional electron gases. Physical Review B, 2018, 98, .    | 3.2  | 9         |
| 40 | Physics and application of persistent spin helix state in semiconductor heterostructures. Semiconductor Science and Technology, 2017, 32, 073002.                     | 2.0  | 48        |
| 41 | Electric-field-induced on/off switching of the Faraday effect. Applied Physics Express, 2017, 10, 123201.   | 2.4  | 4         |
| 42 | Drift-Induced Enhancement of Cubic Dresselhaus Spin-Orbit Interaction in a Two-Dimensional Electron Gas. Physical Review Letters, 2017, 119, 187703.                  | 7.8  | 12        |
| 43 | Weak antilocalization induced by Rashba spin-orbit interaction in layered III-VI compound semiconductor GaSe thin films. Physical Review B, 2017, 96, .               | 3.2  | 32        |
| 44 | Different spin relaxation mechanisms between epitaxial and polycrystalline Ta thin films. Applied Physics Express, 2017, 10, 023003.                                  | 2.4  | 8         |
| 45 | Gate-controlled switching between persistent and inverse persistent spin helix states. Applied Physics Letters, 2016, 108, .  | 3.3  | 26        |
| 46 | Spin coherence enhanced by in-plane electric field-induced spin-orbit interaction. , 2016, , .  |      | 0         |
| 47 | Enhancement of electric field modulation of coercivity in Pt/Co/Al-O structures by tuning Co surface oxidation. Journal Physics D: Applied Physics, 2016, 49, 03LT01. | 2.8  | 8         |
| 48 | Determination of the bulk Dresselhaus spin-orbit interaction parameter in an InGaAs quantum well. , 2016, , .   |      | 0         |
| 49 | Control of magnetic anisotropy in Pt/Co system using ionic liquid gating. Applied Physics Express, 2016, 9, 063007.   | 2.4  | 35        |
| 50 | Drift transport of helical spin coherence with tailored spin-orbit interactions. Nature Communications, 2016, 7, 10722.   | 12.8 | 43        |
| 51 | Current-Controlled Spin Precession of Quasistationary Electrons in a Cubic Spin-Orbit Field. Physical Review Letters, 2016, 116, 196802.                              | 7.8  | 30        |
| 52 | Observation of the D'yakonov-Perel' Spin Relaxation in Single-Crystalline Pt Thin Films. Physical Review Letters, 2016, 116, 256802.                                  | 7.8  | 50        |
| 53 | Bias dependence of spin injection/transport properties of a perpendicularly magnetized FePt/MgO/GaAs structure. Applied Physics Express, 2016, 9, 043002.             | 2.4  | 2         |
| 54 | Transition of a two-dimensional spin mode to a helical state by lateral confinement. Physical Review B, 2015, 92, .   | 3.2  | 19        |

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|----|---|------|-----------|
| 55 | Effect of cubic Dresselhaus spin-orbit interaction in a persistent spin helix state including phonon scattering in semiconductor quantum wells. Applied Physics Letters, 2015, 107, . | 3.3  | 5         |
| 56 | All-optical evaluation of spin-orbit interaction based on diffusive spin motion in a two-dimensional electron gas. Applied Physics Letters, 2015, 107, .                              | 3.3  | 17        |
| 57 | In-plane tunneling anisotropic magnetoresistance in (Ga,Mn)As/GaAs Esaki diodes in the regime of the excess current. Applied Physics Letters, 2015, 106, 262402.                      | 3.3  | 5         |
| 58 | Shot Noise Induced by Nonequilibrium Spin Accumulation. Physical Review Letters, 2015, 114, 016601.   | 7.8  | 28        |
| 59 | Comparison of electrical and optical detection of spin injection in L10-FePt/MgO/GaAs hybrid structures. Journal Physics D: Applied Physics, 2015, 48, 164003.                        | 2.8  | 3         |
| 60 | Layer thickness dependence of spin orbit torques and fields in Pt/Co/AIO trilayer structures. Japanese Journal of Applied Physics, 2015, 54, 04DM05.                                  | 1.5  | 2         |
| 61 | Perpendicular Magnetic Anisotropy in Pt/Co/AIO Trilayer Structures Depending on AIO Thickness and Fabrication Method. Key Engineering Materials, 2014, 616, 247-251.                  | 0.4  | 0         |
| 62 | Giant enhancement of spin detection sensitivity in (Ga,Mn)As/GaAs Esaki diodes. Physical Review B, 2014, 89, .  | 3.2  | 20        |
| 63 | Platinum layer thickness dependence of spin-Hall induced effective magnetic field in Pt/Co/Pt structures. Japanese Journal of Applied Physics, 2014, 53, 04EM06.                      | 1.5  | 4         |
| 64 | Direct determination of spin-orbit interaction coefficients and realization of the persistent spin helix symmetry. Nature Nanotechnology, 2014, 9, 703-709.                           | 31.5 | 97        |
| 65 | Platinum thickness dependence and annealing effect of the spin-Seebeck voltage in platinum/yttrium iron garnet structures. Applied Physics Express, 2014, 7, 093001.                  | 2.4  | 33        |
| 66 | Chirality determination of ferromagnetic disk by local Hall effect. Applied Physics Letters, 2013, 103, 122408.   | 3.3  | 4         |
| 67 | Manipulation of mobile spin coherence using magnetic-field-free electron spin resonance. Nature Physics, 2013, 9, 280-283.  | 16.7 | 57        |
| 68 | Shot noise at the quantum point contact in InGaAs heterostructure. , 2013, , .  |      | 0         |
| 69 | Voltage-induced coercivity change in FePt/MgO stacks with different FePt thicknesses. Journal Physics D: Applied Physics, 2013, 46, 285002.   | 2.8  | 13        |
| 70 | Structural and magnetic properties of $\langle 111 \rangle$ -FePd/MgO films on GaAs and InP lattice mismatched substrates. Applied Physics Letters, 2013, 102, .                      | 3.3  | 10        |
| 71 | Anisotropy and Damping in $\text{Co}_{2}\text{FeAl}_{0.5}\text{Si}_{0.5}$ via Electrical Detection of Ferromagnetic Resonance. Japanese Journal of Applied Physics, 2012, 51, 083001. | 1.5  | 5         |
| 72 | Relative Vortex State Control in a Co/Cu/Co Pseudo-Spin-Valve Ring. Japanese Journal of Applied Physics, 2012, 51, 04DM04.  | 1.5  | 2         |

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|----|--|------|-----------|
| 73 | Anisotropic Weak Anti-Localization under In-Plane Magnetic Field and Control of Dimensionality via Spin Precession Length. Japanese Journal of Applied Physics, 2012, 51, 04DM01.      | 1.5  | 1         |
| 74 | Electrical determination of relative chirality direction in a Co/Cu/Co ferromagnetic ring. Applied Physics Letters, 2012, 101, 062409.   | 3.3  | 1         |
| 75 | Dynamic nuclear spin polarization in an all-semiconductor spin injection device with (Ga,Mn)As/n-GaAs spin Esaki diode. Applied Physics Letters, 2012, 101, .                          | 3.3  | 22        |
| 76 | Shot noise suppression in InGaAs/InGaAsP quantum channels. Applied Physics Letters, 2012, 100, .   | 3.3  | 12        |
| 77 | Gate-controlled persistent spin helix state in (In,Ga)As quantum wells. Physical Review B, 2012, 86, .   | 3.2  | 116       |
| 78 | MgO Layer Thickness Dependence of Structure and Magnetic Properties of $L1_{0}$ -FePt/MgO/GaAs Structures. Japanese Journal of Applied Physics, 2012, 51, 02BM05.                      | 1.5  | 5         |
| 79 | Proposal of spin complementary field effect transistor. Applied Physics Letters, 2012, 100, 113502.  | 3.3  | 35        |
| 80 | Spin-orbit induced electronic spin separation in semiconductor nanostructures. Nature Communications, 2012, 3, 1082.   | 12.8 | 68        |
| 81 | Experimental Demonstration of Spin Geometric Phase: Radius Dependence of Time-Reversal Aharonov-Casher Oscillations. Physical Review Letters, 2012, 108, 086801.                       | 7.8  | 53        |
| 82 | Semiclassical approach for spin dephasing in a quasi-one-dimensional channel. Physical Review B, 2012, 85, .   | 3.2  | 10        |
| 83 | MgO Layer Thickness Dependence of Structure and Magnetic Properties of $L1_{0}$ -FePt/MgO/GaAs Structures. Japanese Journal of Applied Physics, 2012, 51, 02BM05.                      | 1.5  | 2         |
| 84 | Relative Vortex State Control in a Co/Cu/Co Pseudo-Spin-Valve Ring. Japanese Journal of Applied Physics, 2012, 51, 04DM04.   | 1.5  | 3         |
| 85 | Anisotropic Weak Anti-Localization under In-Plane Magnetic Field and Control of Dimensionality via Spin Precession Length. Japanese Journal of Applied Physics, 2012, 51, 04DM01.      | 1.5  | 0         |
| 86 | Anisotropy and Damping in $Co_{2}FeAl_{0.5}Si_{0.5}$ via Electrical Detection of Ferromagnetic Resonance. Japanese Journal of Applied Physics, 2012, 51, 083001.                       | 1.5  | 0         |
| 87 | Anisotropic spin transport affected by competition between spin orbit interaction and Zeeman effect in an InGaAs based wire. Journal of Physics: Conference Series, 2011, 334, 012062. | 0.4  | 0         |
| 88 | Magnitude and sign control of lithography-induced uniaxial anisotropy in ultra-thin (Ga,Mn)As wires. Applied Physics Letters, 2011, 98, 083101.  | 3.3  | 6         |
| 89 | Acoustically Induced Spin-Orbit Interactions Revealed by Two-Dimensional Imaging of Spin Transport in GaAs. Physical Review Letters, 2011, 106, 216602.                                | 7.8  | 48        |
| 90 | Coercivity change in an FePt thin layer in a Hall device by voltage application. Applied Physics Letters, 2011, 98, .  | 3.3  | 96        |

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| 91  | Suppression of Aharonov-Casher spin interference in an InGaAs ring array. Journal of Physics: Conference Series, 2011, 302, 012002.  | 0.4 | 2         |
| 92  | Observation of spin wave modes depending on a tunable periodic magnetic field. Applied Physics Letters, 2011, 98, 172508.  | 3.3 | 24        |
| 93  | Proposal for electrical detection of spin separation with in-plane magnetic field in mesoscopic Stern-Gerlach spin filter. , 2010, , .   |     | 0         |
| 94  | Enhancement of Rashba Spin-Orbit Interaction Due to Wave Function Engineering. Journal of Superconductivity and Novel Magnetism, 2010, 23, 49-52.  | 1.8 | 1         |
| 95  | Width and temperature dependence of lithography-induced magnetic anisotropy in (Ga,Mn)As wires. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 2685-2689.  | 2.7 | 2         |
| 96  | Anisotropic spin splitting in InGaAs wire structures. Physics Procedia, 2010, 3, 1255-1259.  | 1.2 | 1         |
| 97  | Experimental demonstration of resonant spin-orbit interaction effect. Physics Procedia, 2010, 3, 1261-1266.  | 1.2 | 0         |
| 98  | Electrical spin manipulation with Al <sub>2</sub> O <sub>3</sub> gate insulator in InGaAs based mesoscopic ring arrays. Physics Procedia, 2010, 3, 1317-1320.  | 1.2 | 0         |
| 99  | Enhancement of spin-orbit interaction and the effect of interface diffusion in quaternary InGaAsP/InGaAs heterostructures. Physical Review B, 2010, 81, .  | 3.2 | 20        |
| 100 | Spin-Orbit Interaction in an In <sub>0.53</sub> Ga <sub>0.47</sub> As/In <sub>0.7</sub> Ga <sub>0.3</sub> As Shallow Two-Dimensional Electron Gas Located 5 nm below InP Surface Barrier. Japanese Journal of Applied Physics, 2010, 49, 04DM02.   | 1.5 | 2         |
| 101 | Electrical Detection of Propagating Spin Waves Controlled by a Local Magnetic Field Induced by a DC Current. Japanese Journal of Applied Physics, 2010, 49, 04DM01.  | 1.5 | 3         |
| 102 | Enhancement of Spin Lifetime in Gate-Fitted InGaAs Narrow Wires. Physical Review Letters, 2009, 102, 226601.   | 7.8 | 60        |
| 103 | Electrical manipulation of spins in the Rashba two dimensional electron gas systems. Journal of Applied Physics, 2009, 105, 122402.  | 2.5 | 23        |
| 104 | Local Hall measurement of magnetization reversal and magnetic interaction in Fe/Au/Fe trilayer rings. Physica Status Solidi C: Current Topics in Solid State Physics, 2008, 5, 294-297.  | 0.8 | 2         |
| 105 | Rashba spin-orbit interaction of In <sub>0.53</sub> Ga <sub>0.47</sub> As/In <sub>0.7</sub> Ga <sub>0.3</sub> As/In <sub>0.53</sub> Ga <sub>0.47</sub> As shallow two-dimensional electron gas by surface etching. Physica Status Solidi C: Current Topics in Solid State Physics, 2008, 5, 322-325. | 0.8 | 4         |
| 106 | Quantum well thickness dependence of spin orbit interaction in gated InP/In <sub>0.8</sub> Ga <sub>0.2</sub> As/In <sub>0.52</sub> Al <sub>0.48</sub> As asymmetric quantum wells. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 1194-1196.                                       | 2.7 | 8         |
| 107 | Manipulating Spin-Orbit Interaction in Semiconductors. Journal of the Physical Society of Japan, 2008, 77, 031008.   | 1.6 | 37        |
| 108 | Control of interlayer magnetostatic coupling in submicron-sized Fe•Au•Fe rings. Applied Physics Letters, 2008, 92, 032502.   | 3.3 | 3         |

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|-----|--|-----|-----------|
| 109 | High Remanent Magnetization of L10-Ordered FePt Thin Film on MgO/(001) GaAs. Japanese Journal of Applied Physics, 2008, 47, 3269-3271.   | 1.5 | 8         |
| 110 | Suppression of stray field between adjacent rings in one-dimensional ferromagnetic ring arrays. Journal of Applied Physics, 2008, 103, 07A714.   | 2.5 | 3         |
| 111 | All-Electrical Detection of the Relative Strength of Rashba and Dresselhaus Spin-Orbit Interaction in Quantum Wires. Physical Review Letters, 2008, 101, 266401.   | 7.8 | 79        |
| 112 | Comparison of Gate Sensitivity for Spin Interference Effect between Al <sub>2</sub> O <sub>3</sub> and SiO <sub>2</sub> Gate Insulators on InGaAs Based Mesoscopic Ring Arrays. ECS Transactions, 2008, 16, 39-49.   | 0.5 | 1         |
| 113 | EFFECT OF THE ARRAY DISTANCE ON THE MAGNETIZATION CONFIGURATION OF SUBMICRON-SIZED FERROMAGNETIC RINGS. , 2008, , .  |     | 0         |
| 114 | Lateral and Vertical Magnetic Interactions in Submicron-Sized Fe Ring Arrays and Fe/Au/Fe Trilayer Ring Structures. Japanese Journal of Applied Physics, 2007, 46, 2164-2166.  | 1.5 | 4         |
| 115 | Bias voltage dependence of the electron spin injection studied in a three-terminal device based on a (Ga,Mn)As <sup>n+</sup> -GaAs Esaki diode. Applied Physics Letters, 2006, 89, 012103.   | 3.3 | 39        |
| 116 | Magnetic interaction of submicron-sized ferromagnetic rings in one-dimensional array. Applied Physics Letters, 2006, 89, 122508.   | 3.3 | 23        |
| 117 | Gate controlled crossover from weak localization to weak antilocalization in a narrow gap In <sub>0.8</sub> Ga <sub>0.2</sub> As/InP heterostructure. Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 4239-4242.  | 0.8 | 8         |
| 118 | Magnetoresistance oscillations induced by spin orbit interaction and intersubband scattering in a gated InP/In <sub>0.8</sub> Ga <sub>0.2</sub> As/In <sub>0.52</sub> Al <sub>0.48</sub> As heterostructure. Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 4243-4246. | 0.8 | 0         |
| 119 | Spin injection with three terminal device based on (Ga,Mn)As <sup>n+</sup> -GaAs tunnel junction. Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 4164-4167.  | 0.8 | 5         |
| 120 | Effect of n <sup>+</sup> -GaAs thickness and doping density on spin injection of GaMnAs <sup>n+</sup> -GaAs Esaki tunnel junction. Physica E: Low-Dimensional Systems and Nanostructures, 2006, 32, 438-441.   | 2.7 | 20        |
| 121 | A Spin Esaki Diode. Japanese Journal of Applied Physics, 2001, 40, L1274-L1276.  | 1.5 | 125       |