# Osamu Kojima

List of Publications by Year
in descending order



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|---|---|---|---|
| 63 papers | 525 citations | 858243 12 h-index | 843174 20 g-index |
| 63 all docs | 63 docs citations | 63 times ranked | 350 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Increase in terahertz-wave intensity in a magnetic field due to difference-frequency mixing by exciton excitation in a GaAs/AlAs multiple quantum well. Optics Express, 2022, 30, 11789. | 1.7 | 2 |
| 2 | Photoluminescence excitation spectroscopy for structural and electronic characterization of resonant tunneling diodes for THz applications. AIP Advances, 2021, 11, 035122. | 0.6 | 3 |
| 3 | Modulation of exciton states through resonant excitation by continuous wave lasers in a GaAs/AlAs multiple quantum well. Journal Physics D: Applied Physics, 2021, 54, 335106. | 1.3 | 1 |
| 4 | Increase in terahertz-wave generation by difference frequency mixing by the overlap of exciton states in different GaAs/AlAs quantum wells and spectroscopic measurements. Optics Express, 2021, 29, 24387. | 1.7 | 4 |
| 5 | Electron transport in a silicon crystal observed by energy transfer luminescence. Japanese Journal of Applied Physics, 2020, 59, 082005. | 0.8 | 1 |
| 6 | Resonant exciton excitation photoluminescence and dynamics in a GaAs/AlAs multiple quantum well with internal electric field. AIP Advances, 2020, 10, . | 0.6 | 8 |
| 7 | Exciton dynamics as a function of excitation intensity and double-pulse excitation in cyanine molecule thin films: Toward low-power optical switches. Journal of Applied Physics, 2019, 126, 033103. | 1.1 | 1 |
| 8 | Effect of modulation of ultrafast transient carrier dynamics by interface on terahertz signal. Journal of Physics: Conference Series, 2019, 1220, 012013. | 0.3 | 0 |
| 9 | Broadband THz absorption spectrometer based on excitonic nonlinear optical effects. Light: Science and Applications, 2019, 8, 29. | 7.7 | 11 |
| 10 | Effects of a thin nitrogen-doped layer on terahertz dynamics in GaAs containing InAs quantum dots. OSA Continuum, 2019, 2, 1621. | 1.8 | 0 |
| 11 | Wide Frequency Tuning of Continuous Terahertz Wave Generated by Difference Frequency Mixing under Exciton-Excitation Conditions in a <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:mi>Ga</mml:mi><mml:mi>As</mml:mi></mml:math> / <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:mi>Al</mml:mi><mml:mi>As</mml:mi></mml:math> Multiple Quantum Well P | 1.5 | 6 |
| 12 | Effect of lattice-mismatch strain on electron dynamics in InAs/GaAs quantum dots as seen by time-domain terahertz spectroscopy. Journal Physics D: Applied Physics, 2018, 51, 305102. | 1.3 | 3 |
| 13 | Excitation of Thin Cyanine Films via Energy Transfer from Si Substrate. Journal of the Physical Society of Japan, 2017, 86, 094710. | 0.7 | 1 |
| 14 | Effects of exciton line widths on the amplitude of quantum beat oscillations. Applied Physics Express, 2016, 9, 062801. | 1.1 | 3 |
| 15 | Rapid dephasing related to intersubband transitions induced by exciton quantum beats observed by a pump-probe technique in a GaAs/AlAs multiple quantum well. Physical Review B, 2015, 91, . | 1.1 | 4 |
| 16 | Fabrication of cyanine dye thin films grown by a layer-by-layer method. Materials Research Express, 2015, 2, 076402. | 0.8 | 4 |
| 17 | Pulse modulation towards low-power operation based on the quantum beat of excitons in a GaAs/AlAs multiple quantum well. Journal Physics D: Applied Physics, 2014, 47, 105101. | 1.3 | 5 |
| 18 | Control of optical properties in cyanine dye thin film fabricated by a layer-by-layer method. Journal of Applied Physics, 2014, 115, 083503. | 1.1 | 6 |

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|---|---|---|---|
| 19 | Effect of exciton oscillator strength on upconversion photoluminescence in GaAs/AlAs multiple quantum wells. Applied Physics Letters, 2014, 105, . | 1.5 | 8 |
| 20 | Enhancement of Optical Anisotropy by Interconnection Effect along Growth Direction in Multistacked Quantum Dots. Japanese Journal of Applied Physics, 2013, 52, 012001. | 0.8 | 0 |
| 21 | Effects of pumping on propagation velocities of confined exciton polaritons in GaAs/AlxGa1â^'xAs double heterostructure thin films under resonant and non-resonant probe conditions. Journal of Applied Physics, 2013, 113, 013514. | 1.1 | 1 |
| 22 | Observation of quantum beat oscillations and ultrafast relaxation of excitons confined in GaAs thin films by controlling probe laser pulses. Journal of Applied Physics, 2012, 111, 023505. | 1.1 | 12 |
| 23 | Quantum beats of type-I and type-II excitons in an InxGa1â^'xAs/GaAs strained single quantum well. Journal of Applied Physics, 2012, 112, 043522. | 1.1 | 8 |
| 24 | Extremely uniform bound exciton states in nitrogen Î´-doped GaAs studied by photoluminescence spectroscopy in external magnetic fields. Journal of Applied Physics, 2011, 110, 083522. | 1.1 | 10 |
| 25 | Saturation of FÃ¶rster resonance energy transfer between two optically nonlinear cyanine dyes of small Stokes shift energies in polymer thin films. Journal of Applied Physics, 2011, 110, 083521. | 1.1 | 5 |
| 26 | Bound biexciton luminescence in nitrogen Î´â€doped GaAs. Physica Status Solidi (B): Basic Research, 2011, 248, 464-467. | 0.7 | 7 |
| 27 | Propagation velocity of excitonic polaritons confined in GaAs thin films. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 378-380. | 0.8 | 3 |
| 28 | Interaction between conductionâ€band edge and nitrogenâ€related localized levels in nitrogen Î´ â€doped GaAs. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 365-367. | 0.8 | 1 |
| 29 | Intraband relaxation process in highly stacked quantum dots. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 46-49. | 0.8 | 4 |
| 30 | Excitation power dependence of nonlinear optical response of excitons in GaAs/AlAs superlattices. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 50-53. | 0.8 | 2 |
| 31 | Depolarization effect on optical control of exciton states confined in GaAs thin films. Journal of Applied Physics, 2011, 110, 043514. | 1.1 | 3 |
| 32 | Dynamics of above-barrier state excitons in multi-stacked quantum dots. Journal of Applied Physics, 2011, 110, 093515. | 1.1 | 4 |
| 33 | Observation of phase shifts in a vertical cavity quantum dot switch. Applied Physics Letters, 2011, 98, 231101. | 1.5 | 20 |
| 34 | Dephasing of Excitonic Polaritons Confined in GaAs Thin Films. Journal of the Physical Society of Japan, 2011, 80, 034704. | 0.7 | 3 |
| 35 | Detailed Design and Characterization of All-Optical Switches Based on InAs/GaAs Quantum Dots in a Vertical Cavity. IEEE Journal of Quantum Electronics, 2010, 46, 1582-1589. | 1.0 | 14 |
| 36 | Temperature dependence of photoluminescence characteristics of excitons in stacked quantum dots and quantum dot chains. Journal of Applied Physics, 2010, 107, 073506. | 1.1 | 13 |

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| 37 | Temperature-dependent carrier tunneling for self-assembled InAs/GaAs quantum dots with a GaAsN quantum well injector. Applied Physics Letters, 2010, 96, 151104. | 1.5 | 22 |
| 38 | Exciton response controlled by introducing a spacer layer in nitrided InAs quantum dots. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, S146. | 0.8 | 1 |
| 39 | Transient reflectivity response with negative time delay caused by femtosecond pulse propagation in GaAs thin films. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, S139-S142. | 0.8 | 3 |
| 40 | Optical Kerr response to multi pump pulses on GaAs weakly confined exciton. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 1509-1512. | 0.8 | 1 |
| 41 | Vertical-geometry all-optical switches based on InAs/GaAs quantum dots in a cavity. Applied Physics Letters, 2009, 95, 021109. | 1.5 | 39 |
| 42 | Ultrafast optical Kerr effect of excitons weakly confined in GaAs thin films. Physica Status Solidi C: Current Topics in Solid State Physics, 2008, 5, 360-363. | 0.8 | 0 |
| 43 | Spectral width dependence of residual carrier effect on nonlinear optical response of weakly confined excitons. Physica Status Solidi C: Current Topics in Solid State Physics, 2008, 5, 2858-2860. | 0.8 | 4 |
| 44 | Photoluminescence dynamics of weakly confined excitons in GaAs thin films. Journal of Luminescence, 2008, 128, 1069-1071. | 1.5 | 0 |
| 45 | Decay of orientational grating of weakly confined excitons in GaAs thin films. Journal of Luminescence, 2008, 128, 963-965. | 1.5 | 0 |
| 46 | Effects of excitation spectral width on decay profile of weakly confined excitons. Journal of Luminescence, 2008, 128, 966-968. | 1.5 | 0 |
| 47 | Photoluminescence dynamics of coupled quantum dots. Journal of Luminescence, 2008, 128, 975-977. | 1.5 | 7 |
| 48 | Effects of indium segregation on optical properties of nitrogen-doped InAs/GaAs quantum dots. Journal of Applied Physics, 2008, 104, 103532. | 1.1 | 4 |
| 49 | Photoluminescence characteristics of quantum dots with electronic states interconnected along growth direction. Journal of Applied Physics, 2008, 103, . | 1.1 | 42 |
| 50 | Ultrafast Response Induced by Interference Effects between Weakly Confined Exciton States. Journal of the Physical Society of Japan, 2008, 77, 044701. | 0.7 | 21 |
| 51 | Enhancement of nonlinear optical response of weakly confined excitons in GaAs thin films by spectrally rectangle-shape-pulse-excitation. Journal of Physics: Conference Series, 2007, 61, 618-622. | 0.3 | 1 |
| 52 | Ultrafast nonlinear optical response of weakly confined excitons in GaAs thin films. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 1731-1734. | 0.8 | 5 |
| 53 | Terahertz radiation from coherent confined optical phonons in GaAs/AlAs multiple quantum wells. Physica Status Solidi (A) Applications and Materials Science, 2007, 204, 518-521. | 0.8 | 9 |
| 54 | Spectrally resolved nonlinear optical response of weakly confined excitons under femtosecond laser pulse excitation in GaAs thin films. Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 675-678. | 0.8 | 9 |

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|---|---|---|---|
| 55 | Characteristics of coupled mode of excitonic quantum beat and coherent longitudinal optical phonon in GaAs/AlAs multiple quantum wells. Journal of Luminescence, 2005, 112, 142-145. | 1.5 | 4 |
| 56 | Intense coherent longitudinal optical phonons in CuI thin films under excitonâ€“excitation conditions. Journal of Luminescence, 2005, 112, 80-83. | 1.5 | 9 |
| 57 | Intense terahertz radiation from longitudinal optical phonons in GaAsâ^•AlAs multiple quantum wells. Applied Physics Letters, 2005, 87, 093102. | 1.5 | 33 |
| 58 | Coupled mode of the coherent optical phonon and excitonic quantum beat in GaAsâ^•AlAs multiple quantum wells. Physical Review B, 2004, 69, . | 1.1 | 15 |
| 59 | Enhancement of coherent longitudinal optical phonon oscillations in aGaAsâ^•AlAsmultiple quantum well due to intersubband energy tuning under an electric field. Physical Review B, 2004, 70, . | 1.1 | 18 |
| 60 | Enhancement of coherent LO phonons by quantum beats of excitons in GaAs/AlAs multiple quantum wells. Journal of Luminescence, 2004, 108, 195-199. | 1.5 | 10 |
| 61 | Coupling of coherent longitudinal optical phonons to excitonic quantum beats in GaAs/AlAs multiple quantum wells. Physical Review B, 2003, 68, . | 1.1 | 29 |
| 62 | Thermal-strain-induced splitting of heavy- and light-hole exciton energies in CuI thin films grown by vacuum evaporation. Physical Review B, 1999, 60, 13879-13884. | 1.1 | 52 |
| 63 | Ultrafast All-Optical Control of Excitons Confined in GaAs Thin Films. Applied Physics Express, 0, 1, 112401. | 1.1 | 6 |