

# Unal Yesilgul

## List of Publications by Year in descending order

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55  
papers

1,292  
citations

331670

21  
h-index

377865

34  
g-index

57  
all docs

57  
docs citations

57  
times ranked

238  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Nonlinear optical rectification and the second and third harmonic generation in $\text{PbTe}$ quantum well under the intense laser field. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2012, 376, 1875-1880.                          | 2.1 | 111       |
| 2  | Impurity-related linear and nonlinear optical response in quantum-well wires with triangular cross section. <i>Journal of Luminescence</i> , 2013, 143, 304-313.  | 3.1 | 70        |
| 3  | Nonlinear optical properties of asymmetric quantum wells. <i>Journal of Luminescence</i> , 2013, 143, 314-319.  | 3.6 | 64        |
| 4  | Effect of intense high-frequency laser field on the linear and nonlinear intersubband optical absorption coefficients and refractive index changes in a parabolic quantum well under the applied electric field. <i>Journal of Luminescence</i> , 2014, 145, 379-386. | 3.1 | 59        |
| 5  | Effects of an intense, high-frequency laser field on the intersubband transitions and impurity binding energy in semiconductor quantum wells. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2010, 374, 2980-2984.                      | 2.1 | 58        |
| 6  | The linear and nonlinear intersubband optical absorption coefficients and refractive index changes in a V-shaped quantum well under the applied electric and magnetic fields. <i>Superlattices and Microstructures</i> , 2011, 50, 400-410.                           | 3.1 | 54        |
| 7  | Linear and nonlinear intersubband optical absorption coefficients and refractive index changes in symmetric double semi-V-shaped quantum wells. <i>Journal of Luminescence</i> , 2012, 132, 765-773.  | 3.1 | 52        |
| 8  | The effects of the electric and magnetic fields on the nonlinear optical properties in the step-like asymmetric quantum well. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2014, 61, 107-110.   | 2.7 | 50        |
| 9  | Effects of applied electromagnetic fields on the linear and nonlinear optical properties in an inverse parabolic quantum well. <i>Journal of Luminescence</i> , 2012, 132, 1627-1631.   | 3.1 | 44        |
| 10 | Combined effects of intense laser field, electric and magnetic fields on the nonlinear optical properties of the step-like quantum well. <i>Materials Chemistry and Physics</i> , 2015, 154, 170-175.   | 4.0 | 43        |
| 11 | Nonlinear optical absorption and refractive index in $\text{GaInNAs}/\text{GaAs}$ double quantum wells under intense laser field and applied electric field. <i>Journal of Luminescence</i> , 2013, 143, 75-80.   | 3.1 | 42        |
| 12 | The effects of hydrostatic pressure and intense laser field on the linear and nonlinear optical properties of a square quantum well. <i>Optics Communications</i> , 2012, 285, 373-377.   | 2.1 | 40        |
| 13 | The effect of intense laser field on the photoionization cross-section and binding energy of shallow donor impurities in graded quantum-well wire under an electric field. <i>Journal of Physics Condensed Matter</i> , 2006, 18, 6263-6271.                          | 1.8 | 38        |
| 14 | Linear and nonlinear optical properties in an asymmetric double quantum well under intense laser field: Effects of applied electric and magnetic fields. <i>Optical Materials</i> , 2016, 58, 107-112.  | 3.6 | 38        |
| 15 | Simultaneous effects of hydrostatic pressure and temperature on the nonlinear optical properties in a parabolic quantum well under the intense laser field. <i>Optics Communications</i> , 2013, 309, 158-162.  | 2.1 | 36        |
| 16 | The effect of hydrostatic pressure on the photoionization cross-section and binding energy of impurities in quantum-well wire under the electric field. <i>Physica B: Condensed Matter</i> , 2005, 368, 76-81.  | 2.7 | 33        |
| 17 | Hydrogenic impurities in quantum dots under intense high-frequency laser field. <i>Physica B: Condensed Matter</i> , 2011, 406, 1441-1444.  | 2.7 | 29        |
| 18 | Effects of electromagnetic fields on the nonlinear optical properties of asymmetric double quantum well under intense laser field. <i>Chemical Physics</i> , 2017, 485-486, 81-87.  | 1.9 | 27        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Effects of magnetic field, hydrostatic pressure and temperature on the nonlinear optical properties in symmetric double semi-V-shaped quantum well. <i>Optical and Quantum Electronics</i> , 2016, 48, 1.                                 | 3.3 | 26        |
| 20 | Combined effects of the intense laser field, electric and magnetic fields on the optical properties of n-type double $\delta$ -doped GaAs quantum well. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017, 90, 214-217. | 2.7 | 24        |
| 21 | The effects of temperature and hydrostatic pressure on the photoionization cross-section and binding energy of impurities in quantum-well wires. <i>Superlattices and Microstructures</i> , 2010, 48, 106-113.                            | 3.1 | 22        |
| 22 | The effect of the intense laser field on the electronic states and optical properties of n-type double $\delta$ -doped GaAs quantum wells. <i>Optical Materials</i> , 2017, 64, 82-87.  | 3.6 | 22        |
| 23 | The effects of the intense laser field on bound states in $\text{Ga}_x\text{In}_{1-x}\text{N}_y\text{As}_{1-y}\text{N}/\text{GaAs}$ single quantum well. <i>European Physical Journal B</i> , 2011, 80, 89-93.                            | 1.5 | 21        |
| 24 | Third-harmonic generation of a laser-driven quantum dot with impurity. <i>Physica B: Condensed Matter</i> , 2018, 539, 101-105.   | 2.7 | 21        |
| 25 | Electronic band structure of $\text{GaAs}/\text{Al}_x\text{Ga}_{1-x}\text{As}$ superlattice in an intense laser field. <i>Journal of Luminescence</i> , 2012, 132, 1584-1588.   | 3.1 | 19        |
| 26 | Donor impurity-related photoionization cross-section in parabolic quantum wires: Effects of intense laser field and applied electric field. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2015, 74, 34-38.               | 2.7 | 16        |
| 27 | The effect of hydrostatic pressure on subband structure and optical transitions in modulation-doped quantum well. <i>Superlattices and Microstructures</i> , 2011, 49, 635-643.   | 3.1 | 15        |
| 28 | The effect of magnetic field on the impurity binding energy of shallow donor impurities in a $\text{Ga}_{1-x}\text{In}_x\text{N}_y\text{As}_{1-y}/\text{GaAs}$ quantum well. <i>Nanoscale Research Letters</i> , 2012, 7, 586.            | 5.7 | 15        |
| 29 | Impurity-related optical response in cylindrical quantum dots with a $\delta$ -doped axial potential under an intense laser field. <i>Journal of Physics and Chemistry of Solids</i> , 2018, 120, 279-286.                                | 4.0 | 15        |
| 30 | Nonlinear optical properties of a semi-exponential quantum wells: Effect of high-frequency intense laser field. <i>Optik</i> , 2019, 185, 311-316.  | 2.9 | 14        |
| 31 | Effects of indium and nitrogen mole concentrations on the optical properties in a $\text{GaInNas}/\text{GaAs}$ quantum well under the intense laser field. <i>Journal of Luminescence</i> , 2013, 134, 208-212.                           | 3.1 | 13        |
| 32 | The effects of intense laser field on optical responses of n-type delta doped GaAs quantum well under applied electric and magnetic fields. <i>Optik</i> , 2018, 162, 76-80.  | 2.9 | 13        |
| 33 | Linear and nonlinear optical properties in asymmetric double semi-V-shaped quantum well. <i>Physica B: Condensed Matter</i> , 2015, 475, 110-116.   | 2.7 | 11        |
| 34 | The effects of temperature and hydrostatic pressure on the photoionization cross-section and binding energy of shallow donor impurities in quantum dots. <i>Superlattices and Microstructures</i> , 2010, 48, 509-516.                    | 3.1 | 10        |
| 35 | The effects of the intense laser field on the optical properties of the asymmetric parabolic quantum well. <i>Optical and Quantum Electronics</i> , 2017, 49, 1.  | 3.3 | 10        |
| 36 | Photoionization of donor impurities in quantum wires in a magnetic field. <i>Journal Physics D: Applied Physics</i> , 2004, 37, 674-677.  | 2.8 | 9         |

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|----|--|-----|-----------|
| 37 | Effects of an intense, high-frequency laser field on the binding energy of excitons confined in a GaInNAs/GaAs quantum well. <i>Physica B: Condensed Matter</i> , 2012, 407, 528-532.  | 2.7 | 9         |
| 38 | Intense laser field effects on the intersubband optical absorption and refractive index change in the $\delta$ -doped GaAs quantum wells. <i>Chemical Physics</i> , 2017, 487, 11-15.  | 1.9 | 9         |
| 39 | Optical properties of the Tietz-Hua quantum well under the applied external fields. <i>Physica B: Condensed Matter</i> , 2017, 526, 127-131.   | 2.7 | 9         |
| 40 | Intense laser field effects on the third-harmonic generation in a quantum pseudodot system. <i>Physica B: Condensed Matter</i> , 2017, 521, 215-220.   | 2.7 | 9         |
| 41 | Electron-related optical responses in Gaussian potential quantum wells: Role of intense laser field. <i>Physica B: Condensed Matter</i> , 2018, 545, 250-254.  | 2.7 | 9         |
| 42 | Optical response in a laser-driven quantum pseudodot system. <i>Physica B: Condensed Matter</i> , 2017, 509, 10-15.  | 2.7 | 8         |
| 43 | Photoionization cross-section and binding energy of shallow donor impurities in Ga <sub>1-x</sub> In <sub>x</sub> NyAs <sub>1-y</sub> /GaAs quantum wires. <i>Solid State Communications</i> , 2011, 151, 1175-1178.   | 1.9 | 7         |
| 44 | THE INTERSUBBAND TRANSITIONS AND BINDING ENERGY OF SHALLOW DONOR IMPURITIES IN DIFFERENT SHAPED QUANTUM WELLS UNDER THE MAGNETIC FIELD. <i>Modern Physics Letters B</i> , 2011, 25, 2451-2459.   | 1.9 | 7         |
| 45 | Effect of applied external fields on the nonlinear optical properties of a Woods-Saxon potential quantum well. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2019, 111, 167-171.  | 2.7 | 7         |
| 46 | THE PHOTOIONIZATION CROSS-SECTION AND BINDING ENERGY OF IMPURITIES IN QUANTUM WIRES: EFFECTS OF THE ELECTRIC AND MAGNETIC FIELD. <i>Surface Review and Letters</i> , 2004, 11, 411-417.  | 1.1 | 6         |
| 47 | Nonlinear optical properties of asymmetric n-type double $\delta$ -doped GaAs quantum well under intense laser field. <i>European Physical Journal B</i> , 2017, 90, 1.  | 1.5 | 5         |
| 48 | THE ELECTRIC FIELD DEPENDENCE OF THE PHOTOIONIZATION CROSS-SECTION OF SHALLOW DONOR IMPURITIES IN QUANTUM DOTS: INFINITE AND FINITE MODEL. <i>Surface Review and Letters</i> , 2006, 13, 747-752.  | 1.1 | 4         |
| 49 | THE EFFECTS OF TEMPERATURE AND HYDROSTATIC PRESSURE ON THE DIAMAGNETIC SUSCEPTIBILITY OF A DONOR IN A QUANTUM WELL. <i>Surface Review and Letters</i> , 2011, 18, 147-152.   | 1.1 | 4         |
| 50 | Effects of applied electromagnetic fields on the optical transitions in a V-shaped quantum well. <i>Superlattices and Microstructures</i> , 2013, 58, 87-93.   | 3.1 | 4         |
| 51 | OPTICAL INTERSUBBAND TRANSITIONS AND BINDING ENERGIES OF DONOR IMPURITIES IN Ga <sub>1-x</sub> In <sub>x</sub> N <sub>y</sub> As <sub>1-y</sub> QUANTUM WELL UNDER THE ELECTRIC FIELD. <i>International Journal of Modern Physics B</i> , 2012, 26, 1250013. | 2.0 | 3         |
| 52 | Infrared transitions between hydrogenic states in GaInNAs/GaAs quantum wells. <i>International Journal of Modern Physics B</i> , 2016, 30, 1650139.  | 2.0 | 3         |
| 53 | Effect of the High-Frequency Laser Radiation on the Nonlinear Optical Properties of n-Type Double $\delta$ -Doped GaAs Quantum Wells. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 4167-4171.  | 0.9 | 2         |
| 54 | Intense Laser Field Effects on the Shallow-Donor Impurity States in Rectangular-Shaped Quantum Well Wires. <i>Acta Physica Polonica A</i> , 2014, 125, 198-201.  | 0.5 | 1         |

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|----|--|-----|-----------|
| 55 | Tailoring the optical properties of quantum ring irradiated by THz laser. Philosophical Magazine, 2019, 99, 3116-3132. | 1.6 | 1         |