

Search > Results > Results > Optical properties of sphe... > Influence of position depe... > The anisotropy effects on ... >

Magneto-optical properties...



Full text at publisher



Export ▾

Add To Marked List

< 4 of 7 >

## Magneto-optical properties of impurity associated photoionization cross-section in laser-driven delta-doped quantum wires

By: Peter, AJ (Peter, A. John)<sup>1</sup>; Kasapoglu, E (Kasapoglu, E.)<sup>2</sup>; Ugan, F (Ugan, F.)<sup>3</sup>

PHYSICA B-CONDENSED MATTER

### PHYSICA B-CONDENSED MATTER



#### Journal Impact Factor™

2020

Five Year

2.436

2.079

JCR Category	Category Rank	Category Quartile
PHYSICS, CONDENSED MATTER <i>in SCIE edition</i>	39/69	Q3

Source: Journal Citation Reports™ 2020

section, and nonlinear optical properties in the structure are strongly dependent on doping concentrations. In addition, it has been observed that the magnetic and intense terahertz laser fields cause considerable changes in the binding energy, photoionization cross section and nonlinear spectral properties of the system.

#### Keywords

**Author Keywords:** Delta-doped quantum well wire; Impurity binding energy ; Photoionization cross section; Nonlinear optical response; Intense laser field; Magnetic field

**Keywords Plus:** NONLINEAR-OPTICAL PROPERTIES; SHALLOW DONOR IMPURITIES; HYDROSTATIC-PRESSURE; BINDING-ENERGY; MAGNETIC-FIELD; WELL-WIRES; DOTS; ABSORPTION; SINGLE; STATES

#### Author Information

**Corresponding Address:** Peter, A. John (corresponding author)

Govt Arts Coll, PG & Res Dept Phys, Madurai 625106, Tamil Nadu, India

#### Addresses:

<sup>1</sup> Govt Arts Coll, PG & Res Dept Phys, Madurai 625106, Tamil Nadu,

India

▼ <sup>2</sup> Sivas Cumhuriyet Univ, Fac Sci, Dept Phys, TR-58140 Sivas, Turkey

## Citation Network

In Web of Science Core Collection

0

Citations

Create citation alert

Cited References

30

[View Related Records](#)

#### You may also like...

Rodriguez-Magdaleno, KA; Turkoglu, A; Martinez-Orozco, JC; et al.

[Donor impurity atom effect on the inter-subband absorption coefficient for symmetric double n-type delta-doped GaAs quantum well SUPERLATTICES AND MICROSTRUCTURES](#)

Ulas, M; Cicek, E; Dalgic, SS;

[Electric field effect on the binding energy of a non-hydrogenic donor impurity in a cylindrical cross-sectional quantum well wire](#) PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS

Aghoutane, N; Perez, LM; Feddi, E; et al.

[Adjustment of Terahertz Properties Assigned to the First Lowest Transition of \(D+, X\) Excitonic Complex in a Single Spherical Quantum Dot Using Temperature and Pressure](#) APPLIED SCIENCES-BASEL

Shi, L; Yan, ZW;

[Binding energies and photoionization cross-sections of donor and acceptor impurities in inverted core/shell ellipsoidal quantum dots: Effects of magnetic field, ellipsoid anisotropy and impurity position](#)

INTERNATIONAL JOURNAL OF MODERN PHYSICS B

Turkoglu, A; Dakhlaoui, H; Ugan, F; et al.



▼ <sup>3</sup> Sivas Cumhuriyet Univ, Fac Technol, Dept Opt Engr, TR-58140 Sivas, Turkey

E-mail Addresses: [a\\_johnpeter@rediffmail.com](mailto:a_johnpeter@rediffmail.com)

Categories/Classification

Research Areas: Physics

+ See more data fields

[Optical properties of a quantum well with Razavy confinement potential: Role of applied external fields](#)

PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES

[See all](#)

### Journal information

[PHYSICA B-CONDENSED MATTER](#)

ISSN: 0921-4526

eISSN: 1873-2135

Current Publisher: ELSEVIER, RADARWEG 29, 1043 NX AMSTERDAM, NETHERLANDS

Journal Impact Factor: [Journal Citation Report™](#)

Research Areas: Physics

Web of Science Categories: Physics, Condensed Matter

2.436

Journal Impact Factor™ (2020)

### Use in Web of Science

Web of Science Usage Count

2

Last 180 Days

2

Since 2013

[Learn more](#)

### This record is from:

Web of Science Core Collection

- Science Citation Index Expanded (SCI-EXPANDED)

### Suggest a correction

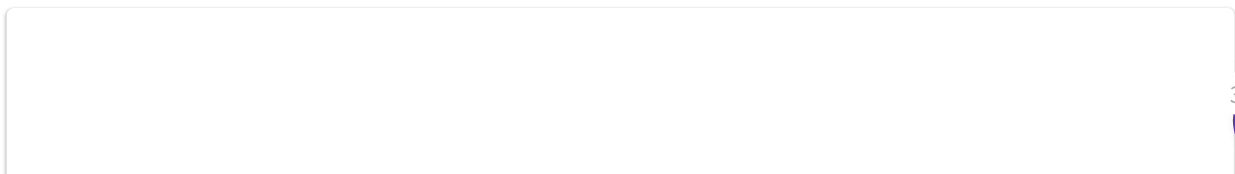
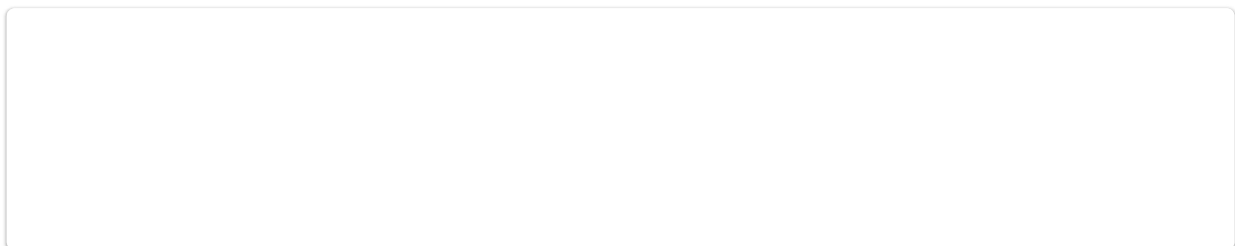
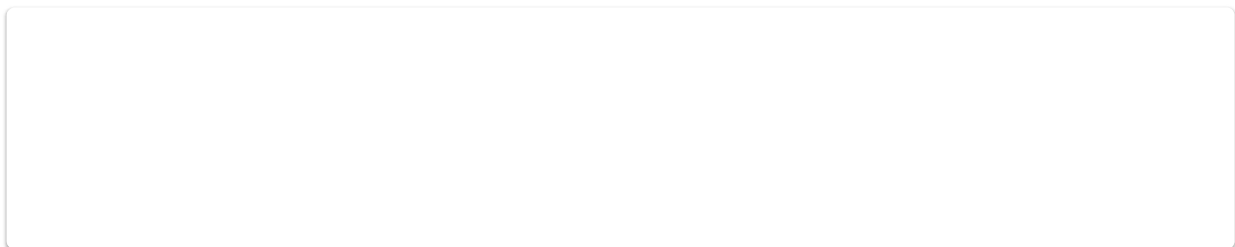
If you would like to improve the quality of the data in this record, please [Suggest a correction](#)

### 30 Cited References

Showing 30 of 30

[View as set of results](#)

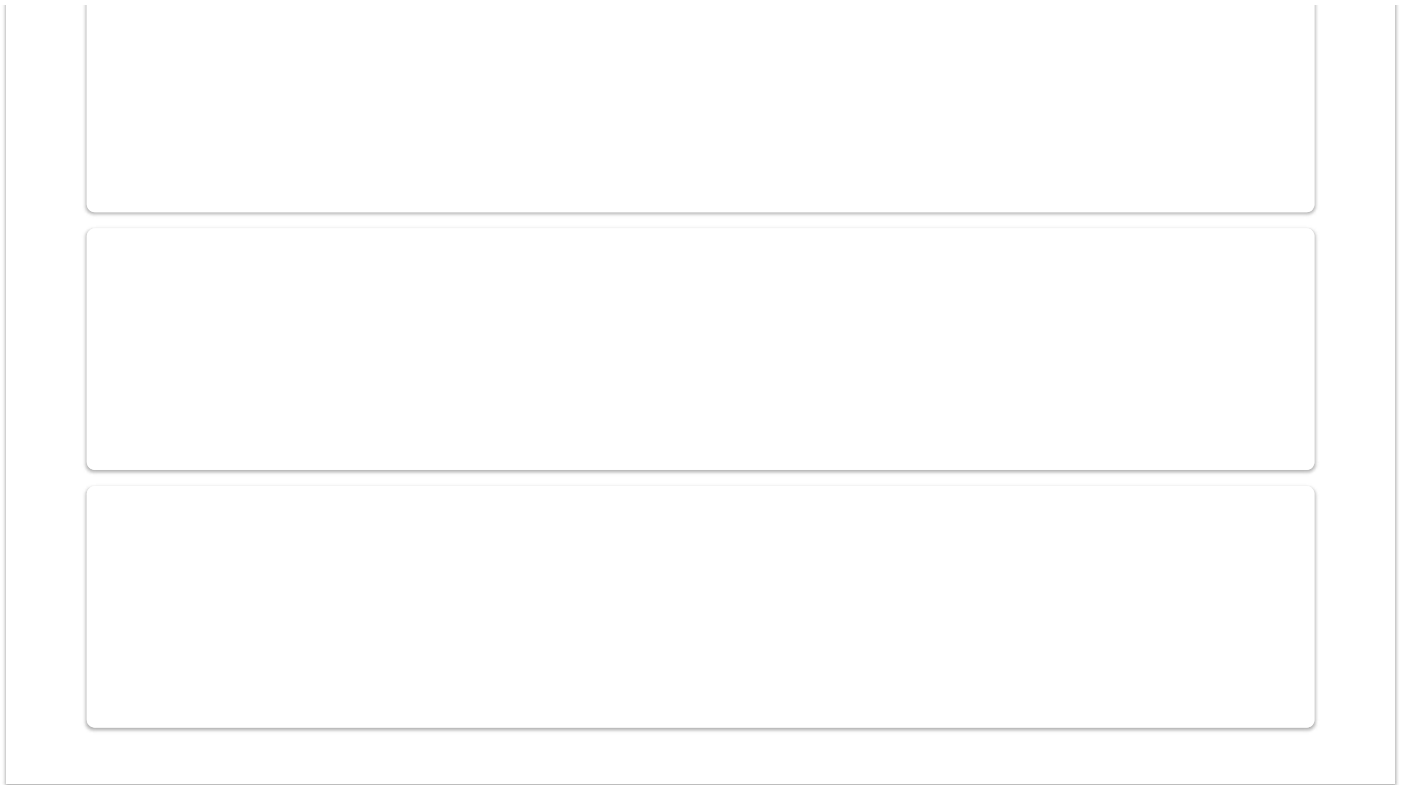
(from Web of Science Core Collection)











© 2021  
Clarivate  
Training  
Portal  
Product  
Support

Data  
Correction  
Privacy  
Statement  
Newsletter

Copyright  
Notice  
Cookie  
Policy  
Terms of  
Use

Manage  
cookie  
preferences

Follow  
Us  
