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International Researcher IDs

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Education

Post Doctorate, Lund University, Department of Physics, Sweden 2017 - 2019

Doctorate, Canakkale Onsekiz Mart University, Fen Fakültesi, Fizik, Turkey 2002 - 2007

Postgraduate, Canakkale Onsekiz Mart University, Fen Fakültesi, Fizik, Turkey 2000 - 2002

Undergraduate, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Physics, Turkey 1994 - 1999

Foreign Languages

Swedish, A1 Beginner

English, C1 Advanced

Research Areas

Physics, Atomic and Molecular Physics, Theory of Atoms and Molecules, Atomic and Molecular Interactions, Natural Sciences

Journal articles indexed in SCI, SSCI, and AHCI

- I. **Extended relativistic multiconfiguration calculations of energy levels and transition properties in singly ionized tin**
Atalay B., Jonsson P., Brage T.
JOURNAL OF QUANTITATIVE SPECTROSCOPY & RADIATIVE TRANSFER, vol.294, 2023 (SCI-Expanded)
- II. **Multiconfiguration Dirac-Hartree-Fock calculations of Landé g-factors for ions of astrophysical interest: B II, C I-IV, Al I-II, Si I-IV, P II, S II, Cl III, Ar IV, Ca I, Ti II, Zr III, and Sn II**
Li W., Rynkun P., Radziute L., Gaigalas G., Atalay B., Papoulia A., Wang K., Hartman H., Ekman J., Brage T., et al.
Astronomy and Astrophysics, vol.639, 2020 (SCI-Expanded)
- III. **MCDHF and RCI calculations of energy levels, lifetimes, and transition rates in Si III and Si IV**
Atalay B., Brage T., Jonsson P., Hartman H.
ASTRONOMY & ASTROPHYSICS, vol.631, 2019 (SCI-Expanded)
- IV. **Radiative Lifetimes for Singly Ionized Beryllium**
Celik G., Atalay B., Ates S.
ACTA PHYSICA POLONICA A, vol.130, no.3, pp.705-709, 2016 (SCI-Expanded)

- V. **Transition probabilities of neutral scandium**
Ozturk I. K., Celik G., Gokce Y., Atalay B., Guzelcimen F., ER A., Basar G., Kroger S.
CANADIAN JOURNAL OF PHYSICS, vol.92, no.11, pp.1425-1429, 2014 (SCI-Expanded)
- VI. **Polyfluorene Thin Films Synthesized by a Novel Plasma Polymerization Method**
Goktas H., MANSUROGLU D., ATALAY B., Bilikmen S., KAYA İ.
PLASMA CHEMISTRY AND PLASMA PROCESSING, vol.32, no.1, pp.35-44, 2012 (SCI-Expanded)
- VII. **Plasma Copolymerization of Thiophene and Pyrrole**
Goktas H., GUNES T., ATALAY B., Er A. O., KAYA İ.
IEEE TRANSACTIONS ON PLASMA SCIENCE, vol.39, no.11, pp.2578-2579, 2011 (SCI-Expanded)
- VIII. **Simulation of Ni-like and Co-like X-rays emitted from laser produced tin plasmas**
Atalay B., Aydin R., Demir A., Kenar N., Kacar E.
CZECHOSLOVAK JOURNAL OF PHYSICS, vol.56, 2006 (SCI-Expanded)

Articles Published in Other Journals

- I. **Conversion efficiency calculations for EUV radiation emitted from laser-produced Tin plasmas**
ATALAY B., KENAR N., DEMİR A.
TURKISH JOURNAL OF PHYSICS, vol.33, no.6, pp.363-368, 2009 (ESCI)

Papers Presented at Peer-Reviewed Scientific Conferences

- I. **MCDHF and RCI calculations of energy levels, lifetimes, and transition rates in Si III**
ATALAY B., Brage T., Jönsson P., Hartman H.
Solvay Workshop on "New Frontiers in Atomic, Nuclear, Plasma and Astrophysics", Brussels- Belgium, 25 - 27 November 2019, (Summary Text)
- II. **Transition Probabilities of the Neutral Niobium in the Wavelength Region from 300 to 400 nm**
KANAT ÖZTÜRK İ., ATALAY B., KEBAPCI T. Y., KRÖGER S.
12th European Conference on Atoms Molecules and Photons (ECAMP12), 5 - 09 September 2016, (Summary Text)
- III. **Allowed and forbidden transitions of some Li-like ions**
ATALAY B., ÇELİK G., ATEŞ Ş.
9th International Physics Conference of the Balkan Physical Union, Istanbul, TURKIYE, 24 - 27 August 2015, (Summary Text)
- IV. **Transition Probabilities of Neutral Antimony**
ATALAY B., ÇELİK G., KANAT ÖZTÜRK İ.
9th International Physics Conference of the Balkan Physical Union, Istanbul, TURKIYE, 24-27 Ağustos 2015., 24 - 27 August 2015, (Summary Text)
- V. **THEORETICAL OSCILLATOR STRENGTHS FOR NEUTRAL NIOBIUM**
ATALAY B., KANAT ÖZTÜRK İ., KEBAPÇI T. Y.
31th International Physics Congress, Bodrum-Muğla, 21 - 24 July 2014, (Summary Text)
- VI. **Theoretical oscillator strengths for the Sc I**
KANAT ÖZTÜRK İ., ATALAY B., ÇELİK G., ER A., BAŞAR G., Kröger S.
46th Conference Of The European Group On Atomic Systems (EGAS 46), Lille, Fransa, 1 - 04 July 2014, (Summary Text)
- VII. **Calculation of Oscillator Strengths For Neutral Manganese**
ATALAY B., KANAT ÖZTÜRK İ., GÖKÇE Y., ÇELİK G., BAŞAR G., YILDIZ M.
30th International Physics Congress, Istanbul, 2014, 2 - 05 September 2013, (Summary Text)
- VIII. **Plasma polymerized PEDOT thin films by double discharge technique**
GÖKTAŞ H., GÜNEŞ T., ATALAY B., MANSUROĞLU D., KAYA İ.
63rd Annual Gaseous Electronics Conference and 7th International Conference on Reactive Plasmas, France., 4 -

- 08 October 2010, (Summary Text)
- IX. **Extreme Ultra-Violet Emission from Laser Produced Tin Plasmas**
ATALAY B., KENAR N., DEMİR A.
30th European Conference on Laser Interaction with Matter,Darmstadt-Germany, 31 August - 05 September 2008, (Summary Text)
- X. **İkili Laser Atım Teknolojisini Laser ile Oluşturulan Plazmalarla X- Işını Dönüşüm Verimliliğine Etkileri**
ATALAY B., KENAR N., DEMİR A.
25th International Physics Congress of Turkish Physical Society, Bodrum-TURKEY., 25 - 29 August 2008, (Summary Text)
- XI. **Simulation of Ni-Like and Co-Like EUV Emitted From Laser Produced Tin Plasmas**
ATALAY B., DEMİR A., KENAR N.
24th International Physics Congress of Turkish Physical Society, Malatya-TURKEY., 28 - 31 August 2007, (Full Text)
- XII. **Progresses on the Theoretical and Experimental Studies in Laser Technologies Research and Application Center In Kocaeli**
AKMAN E., ATALAY B., CANDAN L., CANEL T., DEMİR A., Demir P., KAÇAR E., KENAR N., Köyemen E., Mutlu Şanlı M., et al.
AIP Conference Proceedings, Istanbul (Turkey), 22 - 28 August 2006, (Full Text)
- XIII. **Simulation of Ni like and Co like X rays emitted from laser produced tin plasmas**
ATALAY B., AYDIN R., DEMİR A., KENAR N., KAÇAR E.
22nd Symposium on Plasma Physics and Technology, Prague, Czech Republic, 26 - 29 June 2006, (Summary Text)
- XIV. **Ataletsel Navigasyon Sistemleri ve Bu Sistemlerde Oluşan Hataların Kalman Filtresi Kullanılarak İndirgenmesi**
ATALAY B., AYDIN R., Alaçakır A., ESENDEMİR A.
Türk Fizik Derneği 22. Fizik Kongresi, 14-17 Eylül 2004, Bodrum-Türkiye, Turkey, 14 - 17 September 2004, (Summary Text)

Funded Projects

- ATALAY B., Project Supported by Higher Education Institutions, ANTİMONUN ÜÇÜNCÜ SPEKTRUMUNUN MCDHF YÖNTEMİYLE TEORİK OLARAK İNCELENMESİ, 2023 - Continues
- ATALAY B., Project Supported by Higher Education Institutions, MAGNEYUM BENZERİ SÜLFÜRÜN (S V) ATOMİK YAPI HESAPLAMALARI, 2023 - 2024
- KURT M., ATALAY B., TUBITAK Project, Fiber Bragg Grating Yapımı ve Uygulamaları, 2004 - 2006

Metrics

- Publication: 23
Citation (WoS): 33
Citation (Scopus): 32
H-Index (WoS): 4
H-Index (Scopus): 4