## M A Baig

## List of Publications by Year in descending order

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257450 289244 2,365 125 24 40 h-index citations g-index papers 125 125 125 1145 docs citations times ranked citing authors all docs

| #  | Article   | IF           | CITATIONS |
|----|---|--------------|-----------|
| 1  | Measurement of electron density and temperature of a laser-induced zinc plasma. Journal Physics D: Applied Physics, 2006, 39, 1384-1391.  | 2.8          | 142       |
| 2  | Detection of heavy metals in Arabian crude oil residue using laser induced breakdown spectroscopy. Talanta, 2006, 69, 1072-1078.  | 5.5          | 114       |
| 3  | Spectroscopic studies of laser induced aluminum plasma using fundamental, second and third harmonics of a Nd:YAG laser. European Physical Journal D, 2007, 44, 371-379.               | 1.3          | 81        |
| 4  | The role of various binding materials for trace elemental analysis of powder samples using laser-induced breakdown spectroscopy. Talanta, 2007, 72, 642-649.                          | 5 <b>.</b> 5 | 77        |
| 5  | A comparative study of single and double pulse of laser induced breakdown spectroscopy of silver. Physics of Plasmas, $2011,18,.$   | 1.9          | 73        |
| 6  | On-line monitoring of remediation process of chromium polluted soil using LIBS. Journal of Hazardous Materials, 2009, 163, 1265-1271.   | 12.4         | 68        |
| 7  | Spectroscopic studies of Ca plasma generated by the fundamental, second, and third harmonics of a Nd:YAG laser. Laser and Particle Beams, 2008, 26, 41-50.                            | 1.0          | 57        |
| 8  | Rydberg structure within a broad resonance. Journal of Physics B: Atomic and Molecular Physics, 1985, 18, 3507-3527.  | 1.6          | 54        |
| 9  | Spectroscopic characterization of laser ablation brass plasma. Journal of Applied Physics, 2008, 104, .   | 2.5          | 48        |
| 10 | Centrifugal barrier effects in the high Rydberg states and autoionising resonances of neon. Journal of Physics B: Atomic and Molecular Physics, 1984, 17, 1785-1796.                  | 1.6          | 47        |
| 11 | Quasi-atomic Rydberg states of a complex molecule: CH3I. Journal of Physics B: Atomic and Molecular Physics, 1981, 14, L25-L29.   | 1.6          | 45        |
| 12 | Laser isotope separation of lithium by two-step photoionization. Journal of Applied Physics, 2006, 100, 053111.   | 2.5          | 43        |
| 13 | Diagnostics of cadmium plasma produced by laser ablation. Journal of Applied Physics, 2006, 100, 073102.  | 2.5          | 43        |
| 14 | A Comparative Study of Calibration Free Methods for the Elemental Analysis by Laser Induced Breakdown Spectroscopy. Plasma Chemistry and Plasma Processing, 2016, 36, 1287-1299.      | 2.4          | 42        |
| 15 | Plasma properties of laser-ablated strontium target. Journal of Applied Physics, 2008, 103, 083117.   | 2.5          | 41        |
| 16 | Optical emission studies of the mercury plasma generated by the fundamental, second and third harmonics of a Nd : YAG laser. Journal Physics D: Applied Physics, 2006, 39, 4377-4385. | 2.8          | 38        |
| 17 | On the Optimization for Enhanced Dual-Pulse Laser-Induced Breakdown Spectroscopy. IEEE<br>Transactions on Plasma Science, 2010, 38, 2052-2055.  | 1.3          | 31        |
| 18 | Molecular Rydberg transitions. Multichannel approaches to electronic states: CH3I. Physical Review A, 1981, 24, 2485-2490.  | 2.5          | 29        |

| #  | Article  | IF                | CITATIONS        |
|----|--|-------------------|------------------|
| 19 | High Rydberg transitions in the principal and intercombination series of mercury. Journal of Physics B: Atomic and Molecular Physics, 1983, 16, 1511-1523.   | 1.6               | 29               |
| 20 | Spatial diagnostics of the laser induced lithium fluoride plasma. Physics of Plasmas, 2012, 19, 063304.  | 1.9               | 29               |
| 21 | High-resolution measurements and multichannel quantum defect analysis of the Kr(4p5(2P1/2)nd',J=) Tj ETQq1 1549-1568.  | 1 0.784314<br>1.5 | rgBT /Over<br>27 |
| 22 | Photoionization cross section measurements of the 3pP1,3excited states of helium in the near-threshold region. Physical Review A, 2006, 74, .  | 2.5               | 27               |
| 23 | Simultaneous measurements of photoionization cross-sections of lithium isotopes from 3p2P1/2, 3/2. Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, 5025-5035.                             | 1.5               | 26               |
| 24 | Analysis of lead and copper in soil samples by laser-induced breakdown spectroscopy under external magnetic field. Applied Physics B: Lasers and Optics, 2019, 125, 1.   | 2.2               | 26               |
| 25 | Measurement of photoionization cross section from the 3s3p1P1excited state of magnesium. Journal of Physics B: Atomic, Molecular and Optical Physics, 2007, 40, 2291-2305.                                       | 1.5               | 25               |
| 26 | Alternate technique for simultaneous measurement of photoionization cross-section of isotopes by TOF mass spectrometer. European Physical Journal D, 2006, 38, 277-283.  | 1.3               | 24               |
| 27 | Two-photon optogalvanic spectra of argon: odd parity Rydberg states. Journal of Physics B: Atomic, Molecular and Optical Physics, 1997, 30, 1151-1162.   | 1.5               | 23               |
| 28 | Measurement of the photoionization cross-section of the 3p 2P1/2, 3/2 excited levels of sodium. European Physical Journal D, 2006, 37, 23-28.  | 1.3               | 23               |
| 29 | Measurements of oscillator strengths of the 2p5(2P1/2)ndJ= 2, 3 autoionizing resonances in neon. Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, 2299-2313.                               | 1.5               | 23               |
| 30 | Substrate temperature effects on the structural, compositional, and electrical properties of VO <sub>2</sub> thin films deposited by pulsed laser deposition. Surface and Interface Analysis, 2018, 50, 297-303. | 1.8               | 23               |
| 31 | The high resolution subvalenced-shell absorption spectrum of zinc I. Zeitschrift Für Physik D-Atoms Molecules and Clusters, 1987, 4, 313-328.  | 1.0               | 22               |
| 32 | New high-resolution studies of the 5p spectrum of Ba. Journal of Physics B: Atomic and Molecular Physics, 1984, 17, 371-379.   | 1.6               | 21               |
| 33 | Two-colour three photon resonance excitation spectra of lithium. Journal of Physics B: Atomic, Molecular and Optical Physics, 1994, 27, L351-L357.   | 1.5               | 21               |
| 34 | Measurement of oscillator strength distribution in the discrete and continuous spectrum of lithium. Physical Review A, 2007, 75, .   | 2.5               | 21               |
| 35 | Spectroscopic Studies of the Laser Produced Lead Plasma. Plasma Science and Technology, 2011, 13, 129-134.   | 1.5               | 21               |
| 36 | Many-body effects in the 4p spectrum of strontium. Journal of Physics B: Atomic, Molecular and Optical Physics, 1990, 23, 713-726.   | 1.5               | 20               |

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|----|--|-----------------------|-----------|
| 37 | High-resolution photoabsorption measurement and multichannel quantum-defect-theory analysis of the 2p53s(1P1)ns,ndautoionizing series of sodium. Physical Review A, 1994, 50, 2750-2753.   | 2.5                   | 20        |
| 38 | On the first ionization potential of lithium. Journal of Physics B: Atomic, Molecular and Optical Physics, 2005, 38, S77-S86.  | 1.5                   | 20        |
| 39 | Optical spectroscopic studies of titanium plasma produced by an Nd : YAG laser. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2013, 114, 7-14.   | 0.6                   | 20        |
| 40 | The interchannel interaction between single excitation from 4f14and double excitation from 6s2in Yb I. Journal of Physics B: Atomic and Molecular Physics, 1984, 17, L469-L474.  | 1.6                   | 19        |
| 41 | Experimental and theoretical investigation of odd 5p51/2nl autoionizing resonances in xenon atoms: energy dependence of the reduced widths. Journal of Physics B: Atomic, Molecular and Optical Physics, 2004, 37, 1987-2009.  | 1.5                   | 19        |
| 42 | Photoionization cross-section measurements from the 2p, 3d and 3s excited states of lithium. European Physical Journal D, 2006, 40, 331-337.   | 1.3                   | 19        |
| 43 | Angular momentum dependence of photoionization cross sections from the excited states of lithium. Physical Review A, 2006, 74, . Interaction of the <mml:math <="" th="" xmlns:mml="http://www.w3.org/1998/Math/MathML"><th>2.5</th><th>19</th></mml:math>   | 2.5                   | 19        |
| 44 | display="inline"> <mml:mrow><mml:mn>6</mml:mn><mml:msup><mml:mi>p</mml:mi><mml:mn>6</mml:mn><mml:msup><mml:mi>p</mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi><mml:mi< th=""><th></th><th>up&gt;19</th></mml:mi<></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:mi></mml:msup></mml:msup></mml:mrow> |                       | up>19     |
| 45 | /> <mml:mn>1</mml:mn> <mml:mn>0</mml:mn> Two-photon laser-optogalvanic spectroscopy of the odd-parity Rydberg series of krypton. Journal of Physics B: Atomic, Molecular and Optical Physics, 1997, 30, 2155-2165.   | <th>ith&gt;broad</th> | ith>broad |
| 46 | Spatial diagnostics of the laser-produced tin plasma in air. Laser Physics, 2016, 26, 076001.  | 1.2                   | 18        |
| 47 | Inner shell and double excitation spectrum of ytterbium involving the 4f and 6s subshells. Journal of Physics B: Atomic, Molecular and Optical Physics, 1992, 25, 321-341.   | 1.5                   | 17        |
| 48 | Absolute photoionization cross section from the 6s6p1,3P1excited states of barium. Journal of Physics B: Atomic, Molecular and Optical Physics, 2007, 40, 2307-2319.   | 1.5                   | 17        |
| 49 | Plasma Diagnostic Study of Alumina $(hbox{Al}_{2} hbox{O}_{3})$ Generated by the Fundamental and Second Harmonics of a Nd:YAG Laser. IEEE Transactions on Plasma Science, 2011, 39, 1861-1867.   | 1.3                   | 17        |
| 50 | Oscillator strength measurements of the 3p $\hat{a}^{\dagger}$ nd Rydberg transitions of sodium. European Physical Journal D, 2007, 44, 9-16.  | 1.3                   | 16        |
| 51 | Inner shell and double excitation spectrum of sodium involving 2p and 3s subshells. Journal of Physics B: Atomic, Molecular and Optical Physics, 1994, 27, 389-404.  | 1.5                   | 15        |
| 52 | Two-photon optogalvanic Rydberg spectra of neon. Journal of Physics B: Atomic, Molecular and Optical Physics, 1995, 28, 2525-2538.   | 1.5                   | 15        |
| 53 | A high-resolution study of the principal series of Sr I. Journal of Physics B: Atomic and Molecular Physics, 1984, 17, L271-L274.  | 1.6                   | 14        |
| 54 | Two-step laser excitation of the even-parity Rydberg levels of lead. Journal of Physics B: Atomic, Molecular and Optical Physics, 1995, 28, 2875-2889.   | 1.5                   | 14        |

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|----|--|-----|-----------|
| 55 | Measurements of photoionization cross sections from the 5s5p1P1and 5s6s1S0excited states of strontium. Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, 1587-1596.       | 1.5 | 14        |
| 56 | Laser-based optical emission studies of barium plasma. Applied Physics B: Lasers and Optics, 2013, 110, 563-571.   | 2.2 | 14        |
| 57 | Grain Size and Interface Dependence of Bias Stress Stability of n-Type Organic Field Effect Transistors. ACS Applied Materials & Dependences, 2015, 7, 22380-22384.                            | 8.0 | 14        |
| 58 | Autoionisation in polyatomic molecules. Journal of Physics B: Atomic and Molecular Physics, 1981, 14, L67-L71.   | 1.6 | 13        |
| 59 | New high-resolution study of the 6s subshell spectrum of Tl I. Journal of Physics B: Atomic and Molecular Physics, 1985, 18, 3487-3497.  | 1.6 | 13        |
| 60 | Centrifugal barrier effects in the 3p spectrum of calcium. Journal of Physics B: Atomic and Molecular Physics, 1987, 20, L771-L775.  | 1.6 | 13        |
| 61 | Two-colour three-photon excitation of the 6snf1,3F3and 6snp1P1,3P1,2Rydberg levels of Yb I. Journal of Physics B: Atomic, Molecular and Optical Physics, 1999, 32, 953-965.                    | 1.5 | 13        |
| 62 | Two-step laser spectroscopy of the even-parity Rydberg levels of neutral tin. Journal of Physics B: Atomic, Molecular and Optical Physics, 1999, 32, 5669-5679.                                | 1.5 | 13        |
| 63 | Laser optogalvanic measurements and line-shape analysis of 5p57p and 5p54–5f autoionizing resonances in xenon. Journal of Physics B: Atomic, Molecular and Optical Physics, 2005, 38, S65-S75. | 1.5 | 13        |
| 64 | Photoionization cross section and oscillator strength distribution in the near-threshold region of strontium. European Physical Journal D, 2007, 44, 439-447.                                  | 1.3 | 13        |
| 65 | Two-step laser excitation of 5p3/2np,nfJ= 1 and 2 autoionizing Rydberg levels of tin. Journal of Physics B: Atomic, Molecular and Optical Physics, 2000, 33, 3729-3741.                        | 1.5 | 12        |
| 66 | Two-step laser excitation of the even parity $5p1/2np$ and $nf = 1,2$ Rydberg levels of neutral tin. Journal of Physics B: Atomic, Molecular and Optical Physics, 2001, 34, 2407-2417.         | 1.5 | 12        |
| 67 | Two-step laser excitation of 4snd3D1,2,3and 4sns3S1states from the 4s4p3P levels in zinc. Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, 871-881.                      | 1.5 | 12        |
| 68 | DIAGNOSTICS OF COPPER PLASMA PRODUCED BY THE FUNDAMENTAL, SECOND AND THIRD HARMONICS OF A Nd:YAG LASER. International Journal of Modern Physics B, 2007, 21, 2697-2710.                        | 2.0 | 12        |
| 69 | On the Rydberg transitions and elemental compositions in the laser produced Al (6063) plasma. Physics of Plasmas, 2011, 18, 083303.  | 1.9 | 12        |
| 70 | High-resolution photoabsorption study of the 3d spectrum of chromium. Journal of Physics B: Atomic, Molecular and Optical Physics, 1990, 23, 3489-3509.  | 1.5 | 11        |
| 71 | Photoionization cross sections of doubly excited resonances in ytterbium. Journal of Physics B: Atomic, Molecular and Optical Physics, 1992, 25, 1393-1404.                                    | 1.5 | 11        |
| 72 | Laser optogalvanic spectroscopic studies of xenon. Journal of Physics B: Atomic, Molecular and Optical Physics, 1998, 31, 4017-4028.   | 1.5 | 11        |

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|----|--|------------------|-----------------------------|
| 73 | Three-colour four-photon resonant excitation of the even-parity autoionizing resonances in Yb I. Journal of Physics B: Atomic, Molecular and Optical Physics, 1999, 32, 4361-4371.   | 1.5              | 11                          |
| 74 | Laser optogalvanic spectroscopy of 5p5nfJ= 1-5 even-parity Rydberg levels of xenon. Journal of Physics B: Atomic, Molecular and Optical Physics, 2000, 33, 4647-4655.  | 1.5              | 11                          |
| 75 | Two-step laser optogalvanic spectroscopy of the odd-parity Rydberg states of atomic mercury. European Physical Journal D, 2004, 28, 323-330.   | 1.3              | 11                          |
| 76 | The study of dominant physical processes in the time-resolved optogalvanic spectra of neon. European Physical Journal D, 2005, 36, 1-9.  | 1.3              | 11                          |
| 77 | Measurement of the oscillator strength distribution in helium. Physical Review A, 2007, 76, .  Oscillator strength measurements of the <mml:math< td=""><td>2.5</td><td>11</td></mml:math<>  | 2.5              | 11                          |
| 78 | xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> <mml:mn>6</mml:mn> <mml:mi>sxmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"&gt;<mml:mi>S</mml:mi>S</mml:mi> <mml:mi>S</mml:mi> <mml:mi>S</mml:mi>       | 2.5              | mml:mrow>                   |
| 79 | /> <mml:none></mml:none> <mml:mn>1</mml:mn> 4/mml:mmultiscripts> <mml:mn>0</mml:mn> 6/mml:mn>6/mml:mn>6/mml:mn>6/mml:mn> <td>1.8</td> <td>11</td>  | 1.8              | 11                          |
| 80 | Autoionizing resonances in the 4d subshell excitation spectrum of cadmium. Journal of Physics B: Atomic, Molecular and Optical Physics, 1994, 27, 1693-1708.   | 1.5              | 10                          |
| 81 | Resonantly enhanced ns and nd Rydberg spectroscopy of sodium. Journal of Physics B: Atomic,<br>Molecular and Optical Physics, 1995, 28, 1421-1432.   | 1.5              | 10                          |
| 82 | Photoexcitation study of the 4s <sup>2</sup> S <sub>1/2</sub> state of atomic sodium. Journal of Physics B: Atomic, Molecular and Optical Physics, 2008, 41, 115701.   | 1.5              | 10                          |
| 83 | xmlns:mml="http://www.w3.org/1998/Math/MathML"<br>display="inline"> <mml:mrow><mml:mn>3</mml:mn><mml:msup><mml:mi>p</mml:mi><mml:mn>5</mml:mn></mml:msup></mml:mrow>   | k/mml:msi<br>2.5 | up> <mml:m< td=""></mml:m<> |
| 84 | xmlns:mml="http://www.w3.org/199. Physical Review A, 2008, 78,<br>Laser Based Optical Emission Studies of Zinc Oxide (ZnO) Plasma. Plasma Chemistry and Plasma<br>Processing, 2013, 33, 1167-1178.                                       | 2.4              | 10                          |
| 85 | Multi-photon excitation spectra of the $3snell$ (ell = 0, 1, 2 and 3) Rydberg states of magnesium. Journal of Physics B: Atomic, Molecular and Optical Physics, 2007, 40, 3181-3196.   | 1.5              | 9                           |
| 86 | Elemental Analysis of Stones Using Laser-Induced Breakdown Spectroscopy. IEEE Transactions on Plasma Science, 2015, 43, 2636-2641.   | 1.3              | 9                           |
| 87 | On the compositional analysis of Coal using calibration free laser induced breakdown spectroscopy. Laser Physics, 2019, 29, 036101.  | 1.2              | 9                           |
| 88 | Determination of partial photoionisation cross sections of methyl bromide in the first autoionisation range by use of spin polarisation photoelectron spectroscopy. Journal of Physics B: Atomic and Molecular Physics, 1983, 16, L1-L6. | 1.6              | 8                           |
| 89 | Inner-shell and double-excitation spectrum of rubidium involving 4p and 5s subshells. Journal of Physics B: Atomic, Molecular and Optical Physics, 1995, 28, 1777-1792.  | 1.5              | 8                           |
| 90 | Two-step laser spectroscopy of the highly excited even-parity levels of cadmium. Journal of Physics B: Atomic, Molecular and Optical Physics, 2005, 38, 867-875.   | 1.5              | 8                           |

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|-----|--|--|-----------------|
| 91  | Laser optogalvanic observations and MQDT analysis ofmp5ndJ= 3 autoionizing resonances in Ar, Kr and Xe. Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, 4221-4229.  | 1.5  | 8               |
| 92  | Elemental Analysis of Black Salt by Laser-Induced Breakdown Spectroscopy and Inductively Coupled Plasma–Optical Emission Spectroscopy. Analytical Letters, 2016, 49, 2108-2118.  | 1.8  | 8               |
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| 94  | Line shape parameters study of the 6p7p (1P1, 3D1 and 3P1): Autoionizing resonances in barium. European Physical Journal D, 2007, 41, 229-236.   | 1.3  | 7               |
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