

# Jean-Christophe Pain

## List of Publications by Year in descending order

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96  
papers

1,191  
citations

430874

18  
h-index

414414

32  
g-index

101  
all docs

101  
docs citations

101  
times ranked

814  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | A higher-than-predicted measurement of iron opacity at solar interior temperatures. Nature, 2015, 517, 56-59.  | 27.8 | 321       |
| 2  | Systematic Study of $L$ -Shell Opacity at Stellar Interior Temperatures. Physical Review Letters, 2019, 122, 235001.   | 7.8  | 78        |
| 3  | A consistent approach for mixed detailed and statistical calculation of opacities in hot plasmas. High Energy Density Physics, 2011, 7, 234-239.   | 1.5  | 52        |
| 4  | Accounting for highly excited states in detailed opacity calculations. High Energy Density Physics, 2015, 15, 30-42.   | 1.5  | 42        |
| 5  | Absorption spectroscopy of mid and neighboring Z plasmas: Iron, nickel, copper and germanium. High Energy Density Physics, 2009, 5, 173-181.   | 1.5  | 36        |
| 6  | Benford's law and complex atomic spectra. Physical Review E, 2008, 77, 012102.   | 2.1  | 31        |
| 7  | Stable method for the calculation of partition functions in the superconfiguration approach. Physical Review E, 2004, 69, 056117.  | 2.1  | 30        |
| 8  | A self-consistent model for the study of electronic properties of hot dense plasmas in the superconfiguration approximation. Journal of Quantitative Spectroscopy and Radiative Transfer, 2006, 99, 451-468. | 2.3  | 27        |
| 9  | Self-consistent approach for the thermodynamics of ions in dense plasmas in the superconfiguration approximation. Journal of Quantitative Spectroscopy and Radiative Transfer, 2003, 81, 355-369.            | 2.3  | 26        |
| 10 | Equation-of-state model for shock compression of hot dense matter. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 362, 120-124.  | 2.1  | 25        |
| 11 | Opacity of iron, nickel, and copper plasmas in the x-ray wavelength range: Theoretical interpretation of $\chi$ spectra. Physical Review E, 2011, 84, 036407.  | 2.1  | 23        |
| 12 | Electrical Resistivity in Warm Dense Plasmas Beyond the Average-Atom Model. Contributions To Plasma Physics, 2010, 50, 39-45.  | 1.1  | 21        |
| 13 | Characterization of near-LTE, high-temperature and high-density aluminum plasmas produced by ultra-high intensity lasers. High Energy Density Physics, 2015, 16, 12-17.                                      | 1.5  | 21        |
| 14 | Model uncertainties of local-thermodynamic-equilibrium K-shell spectroscopy. High Energy Density Physics, 2016, 20, 17-22.   | 1.5  | 21        |
| 15 | Efficient methods for calculating the number of states, levels and lines in atomic configurations. High Energy Density Physics, 2009, 5, 320-327.  | 1.5  | 20        |
| 16 | Shell-structure effects on high-pressure Rankine-Hugoniot shock adiabats. High Energy Density Physics, 2007, 3, 204-210.   | 1.5  | 19        |
| 17 | Further stable methods for the calculation of partition functions in the superconfiguration approach. Physical Review E, 2007, 76, 032103.   | 2.1  | 18        |
| 18 | Comment on "Large Enhancement in High-Energy Photoionization of Fe XVII and Missing Continuum Plasma Opacity". Physical Review Letters, 2016, 117, 249501.   | 7.8  | 18        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Impact of high-order moments on the statistical modeling of transition arrays. Physical Review E, 2008, 77, 026708.   | 2.1 | 14        |
| 20 | Jensen-Feynman approach to the statistics of interacting electrons. Physical Review E, 2009, 80, 026703.  | 2.1 | 14        |
| 21 | Detailed computation of hot-plasma atomic spectra. Laser and Particle Beams, 2015, 33, 201-210.   | 1.0 | 14        |
| 22 | D'yakov-Kontorovitch instability of shock waves in hot plasmas. Physical Review E, 2018, 98, .  | 2.1 | 14        |
| 23 | Consistent approach for electrical resistivity within Ziman's theory from solid state to hot dense plasma: Application to aluminum. Physical Review E, 2020, 102, 053209. | 2.1 | 13        |
| 24 | Quantum Statistical Equation of State Models of Dense Plasmas: High-Pressure Hugoniot Shock Adiabats. Contributions To Plasma Physics, 2007, 47, 421-434.                 | 1.1 | 12        |
| 25 | Theoretical interpretation of X-rays photo-absorption in medium-Z elements plasmas measured at LULI2000 facility. High Energy Density Physics, 2011, 7, 320-326.          | 1.5 | 11        |
| 26 | Regularities and symmetries in atomic structure and spectra. High Energy Density Physics, 2013, 9, 392-401.   | 1.5 | 11        |
| 27 | Detailed Opacity Calculations for Astrophysical Applications. Atoms, 2017, 5, 22.   | 1.6 | 11        |
| 28 | Characterization of anomalous Zeeman patterns in complex atomic spectra. Physical Review A, 2012, 85, .   | 2.5 | 10        |
| 29 | Generating functions for canonical systems of fermions. Physical Review E, 2011, 83, 067701.  | 2.1 | 9         |
| 30 | Corrections to statistical modeling of spectra for plasmas at moderate or low temperatures. High Energy Density Physics, 2011, 7, 277-284.                                | 1.5 | 9         |
| 31 | Opacity calculations. Ge and Si dopants in ICF. High Energy Density Physics, 2015, 16, 23-27.   | 1.5 | 9         |
| 32 | X-ray opacity measurements in mid-Z dense plasmas with a new target design of indirect heating. High Energy Density Physics, 2015, 17, 231-239.                           | 1.5 | 9         |
| 33 | A quantitative study of some sources of uncertainty in opacity measurements. High Energy Density Physics, 2020, 34, 100745.   | 1.5 | 9         |
| 34 | Commutation relations of operator monomials. Journal of Physics A: Mathematical and Theoretical, 2013, 46, 035304.  | 2.1 | 8         |
| 35 | Super Transition Arrays: A Tool for Studying Spectral Properties of Hot Plasmas. Plasma, 2021, 4, 42-64.  | 1.8 | 8         |
| 36 | Special six- $j$ and nine- $j$ symbols for a single-shell. Physical Review C, 2011, 84, .   | 2.9 | 7         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 37 | Statistics of electric-quadrupole lines in atomic spectra. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 135006.   | 1.5 | 7         |
| 38 | Open M-shell Fe and Ni LTE opacity calculations with the code HULLAC-v9. High Energy Density Physics, 2015, 16, 1-11.   | 1.5 | 7         |
| 39 | Optimized recursion relation for the computation of partition functions in the superconfiguration approach. High Energy Density Physics, 2020, 37, 100891.  | 1.5 | 7         |
| 40 | Koopmans' theorem in the statistical Hartree-Fock theory. Journal of Physics B: Atomic, Molecular and Optical Physics, 2011, 44, 145001.  | 1.5 | 6         |
| 41 | A note on the contribution of multi-photon processes to radiative opacity. High Energy Density Physics, 2018, 26, 23-25.  | 1.5 | 6         |
| 42 | Equation of State of Dense Plasma Mixtures: Application to the Sun Center. Contributions To Plasma Physics, 2012, 52, 23-27.  | 1.1 | 5         |
| 43 | The hybrid detailed / statistical opacity code SCO-RCG: New developments and applications. AIP Conference Proceedings, 2017, , .  | 0.4 | 5         |
| 44 | NLTE opacity calculations: C-Si and C-Ge mixtures. High Energy Density Physics, 2017, 24, 64-74.  | 1.5 | 5         |
| 45 | ZEST: A Fast Code for Simulating Zeeman-Stark Line-Shape Functions. Atoms, 2018, 6, 11.   | 1.6 | 5         |
| 46 | Plasma potential and opacity calculations. High Energy Density Physics, 2019, 32, 8-13.   | 1.5 | 5         |
| 47 | On the Li-Rosmej analytical formula for energy level shifts in dense plasmas. High Energy Density Physics, 2019, 31, 99-100.  | 1.5 | 5         |
| 48 | Super-transition-array calculations for synthetic spectra and opacity of high-density, high-temperature germanium plasmas. High Energy Density Physics, 2020, 35, 100742.   | 1.5 | 5         |
| 49 | Analytical and numerical expressions for the number of atomic configurations contained in a supershell. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 115002.  | 1.5 | 5         |
| 50 | Opacity calculations in ICF plasmas. High Energy Density Physics, 2013, 9, 553-559.   | 1.5 | 4         |
| 51 | Broadening of the Neutral Helium 492 nm Line in a Corona Discharge: Code Comparisons and Data Fitting. Atoms, 2018, 6, 19.  | 1.6 | 4         |
| 52 | Total number of $J$ levels for identical particles in a single- $j$ shell using the eff   | 2.9 | 4         |
| 53 | to $s$ $p$ $d$ $f$ $g$ $h$ $i$ $j$ $k$ $l$ $m$ $n$ $o$ $p$ $q$ $r$ $s$ $t$ $u$ $v$ $w$ $x$ $y$ $z$ $aa$ $ab$ $ac$ $ad$ $ae$ $af$ $ag$ $ah$ $ai$ $aj$ $ak$ $al$ $am$ $an$ $ao$ $ap$ $aq$ $ar$ $as$ $at$ $au$ $av$ $aw$ $ax$ $ay$ $az$ $ba$ $bb$ $bc$ $bd$ $be$ $bf$ $bg$ $bh$ $bi$ $bj$ $bk$ $bl$ $bm$ $bn$ $bo$ $bp$ $bq$ $br$ $bs$ $bt$ $bu$ $bv$ $bw$ $bx$ $by$ $bz$ $ca$ $cb$ $cc$ $cd$ $ce$ $cf$ $cg$ $ch$ $ci$ $cj$ $ck$ $cl$ $cm$ $cn$ $co$ $cp$ $cq$ $cr$ $cs$ $ct$ $cu$ $cv$ $cw$ $cx$ $cy$ $cz$ $da$ $db$ $dc$ $dd$ $de$ $df$ $dg$ $dh$ $di$ $dj$ $dk$ $dl$ $dm$ $dn$ $do$ $dp$ $dq$ $dr$ $ds$ $dt$ $du$ $dv$ $dw$ $dx$ $dy$ $dz$ $ea$ $eb$ $ec$ $ed$ $ee$ $ef$ $eg$ $eh$ $ei$ $ej$ $ek$ $el$ $em$ $en$ $eo$ $ep$ $eq$ $er$ $es$ $et$ $eu$ $ev$ $ew$ $ex$ $ey$ $ez$ $fa$ $fb$ $fc$ $fd$ $fe$ $ff$ $fg$ $fh$ $fi$ $fj$ $fk$ $fl$ $fm$ $fn$ $fo$ $fp$ $fq$ $fr$ $fs$ $ft$ $fu$ $fv$ $fw$ $fx$ $fy$ $fz$ $ga$ $gb$ $gc$ $gd$ $ge$ $gf$ $gg$ $gh$ $gi$ $gj$ $gk$ $gl$ $gm$ $gn$ $go$ $gp$ $gq$ $gr$ $gs$ $gt$ $gu$ $gv$ $gw$ $gx$ $gy$ $gz$ $ha$ $hb$ $hc$ $hd$ $he$ $hf$ $hg$ $hh$ $hi$ $hj$ $hk$ $hl$ $hm$ $hn$ $ho$ $hp$ $hq$ $hr$ $hs$ $ht$ $hu$ $hv$ $hw$ $hx$ $hy$ $hz$ $ia$ $ib$ $ic$ $id$ $ie$ $if$ $ig$ $ih$ $ii$ $ij$ $ik$ $il$ $im$ $in$ $io$ $ip$ $iq$ $ir$ $is$ $it$ $iu$ $iv$ $iw$ $ix$ $iy$ $iz$ $ja$ $jb$ $jc$ $jd$ $je$ $jf$ $jj$ $jk$ $jl$ $jm$ $jn$ $jo$ $jp$ $jq$ $jr$ $js$ $jt$ $ju$ $ju$ $kv$ $kw$ $kx$ $ky$ $kz$ $la$ $lb$ $lc$ $ld$ $le$ $lf$ $lg$ $lh$ $li$ $lj$ $lk$ $ll$ $lm$ $ln$ $lo$ $lp$ $lq$ $lr$ $ls$ $lt$ $lu$ $lv$ $lw$ $lx$ $ly$ $lz$ $ma$ $mb$ $mc$ $md$ $me$ $mf$ $mg$ $mh$ $mi$ $mj$ $mk$ $ml$ $mm$ $mn$ $mo$ $mp$ $mq$ $mr$ $ms$ $mt$ $mu$ $mv$ $mw$ $mx$ $my$ $mz$ $na$ $nb$ $nc$ $nd$ $ne$ $nf$ $ng$ $nh$ $ni$ $nj$ $nk$ $nl$ $nm$ $nn$ $no$ $np$ $nq$ $nr$ $ns$ $nt$ $nu$ $nv$ $nw$ $nx$ $ny$ $nz$ $oa$ $ob$ $oc$ $od$ $oe$ $of$ $og$ $oh$ $oi$ $oj$ $ok$ $ol$ $om$ $on$ $oo$ $op$ $oq$ $or$ $os$ $ot$ $ou$ $ov$ $ow$ $ox$ $oy$ $oz$ $pa$ $pb$ $pc$ $pd$ $pe$ $pf$ $pg$ $ph$ $pi$ $pj$ $pk$ $pl$ $pm$ $pn$ $po$ $pp$ $pq$ $pr$ $ps$ $pt$ $pu$ $pv$ $pw$ $px$ $py$ $pz$ $qa$ $qb$ $qc$ $qd$ $qe$ $qf$ $qg$ $qh$ $qi$ $qj$ $qk$ $ql$ $qm$ $qn$ $qo$ $qp$ $qq$ $qr$ $qs$ $qt$ $qu$ $qv$ $qw$ $qx$ $qy$ $qz$ $ra$ $rb$ $rc$ $rd$ $re$ $rf$ $rg$ $rh$ $ri$ $rj$ $rk$ $rl$ $rm$ $rn$ $ro$ $rp$ $rq$ $rr$ $rs$ $rt$ $ru$ $rv$ $rw$ $rx$ $ry$ $rz$ $sa$ $sb$ $sc$ $sd$ $se$ $sf$ $sg$ $sh$ $si$ $sj$ $sk$ $sl$ $sm$ $sn$ $so$ $sp$ $sq$ $sr$ $ss$ $st$ $su$ $sv$ $sw$ $sx$ $sy$ $sz$ $ta$ $tb$ $tc$ $td$ $te$ $tf$ $tg$ $th$ $ti$ $tj$ $tk$ $tl$ $tm$ $tn$ $to$ $tp$ $ tq$ $tr$ $ts$ $tt$ $tu$ $tv$ $tw$ $tx$ $ty$ $tz$ $ua$ $ub$ $uc$ $ud$ $ue$ $uf$ $ug$ $uh$ $ui$ $uj$ $uk$ $ul$ $um$ $un$ $uo$ $up$ $uq$ $ur$ $us$ $ut$ $uu$ $uv$ $uw$ $ux$ $uy$ $uz$ $va$ $vb$ $vc$ $vd$ $ve$ $vf$ $vg$ $vh$ $vi$ $vj$ $vk$ $vl$ $vm$ $vn$ $vo$ $vp$ $vq$ $vr$ $vs$ $vt$ $vu$ $vv$ $vw$ $vx$ $vy$ $vz$ $wa$ $wb$ $wc$ $wd$ $we$ $wf$ $wg$ $wh$ $wi$ $wj$ $wk$ $wl$ $wm$ $wn$ $wo$ $wp$ $wq$ $wr$ $ws$ $wt$ $wu$ $wv$ $ww$ $wx$ $wy$ $wz$ $xa$ $xb$ $xc$ $xd$ $xe$ $xf$ $xg$ $xh$ $xi$ $xj$ $xk$ $xl$ $xm$ $xn$ $xo$ $xp$ $xq$ $xr$ $xs$ $xt$ $xu$ $xv$ $xw$ $xx$ $xy$ $xz$ $ya$ $yb$ $yc$ $yd$ $ye$ $yf$ $yg$ $yh$ $yi$ $yj$ $yk$ $yl$ $ym$ $yn$ $yo$ $yp$ $yq$ $yr$ $ys$ $yt$ $yu$ $yv$ $yw$ $yx$ $yy$ $yz$ $za$ $zb$ $zc$ $zd$ $ze$ $zf$ $zg$ $zh$ $zi$ $zj$ $zk$ $zl$ $zm$ $zn$ $zo$ $zp$ $zq$ $zr$ $zs$ $zt$ $zu$ $zv$ $zw$ $zx$ $zy$ $zz$ | 3.2 | 4         |
| 54 | Simple electron-impact excitation cross-sections including plasma density effects. High Energy Density Physics, 2021, 38, 100923.   | 1.5 | 4         |

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|----|---|-----|-----------|
| 55 | Adaptive Algorithm for the Generation of Superconfigurations in Hot-Plasma Opacity Calculations. Plasma, 2022, 5, 154-175.  | 1.8 | 4         |
| 56 | Issues in the calculations of dc conductivity of warm dense aluminium. Contributions To Plasma Physics, 2022, 62, .   | 1.1 | 4         |
| 57 | Opacity of germanium and silicon in ICF plasmas. Proceedings of SPIE, 2013, , .   | 0.8 | 3         |
| 58 | A project based on multi-configuration Dirac-Fock calculations for plasma spectroscopy. High Energy Density Physics, 2017, 24, 1-8.   | 1.5 | 3         |
| 59 | Recursive determination of phase shifts for screened Coulomb potentials. Journal of Physics Communications, 2018, 2, 025015.  | 1.2 | 3         |
| 60 | Number of spin- J states and odd-even staggering for identical particles in a single- j shell. Physical Review C, 2018, 97, .   | 2.9 | 3         |
| 61 | Extreme-UV absorption processes in a laser-produced mid-Z plasma: Measurements and theoretical interpretation. High Energy Density Physics, 2019, 33, 100706.                   | 1.5 | 3         |
| 62 | On the statistical properties of a hydrogenic atom broadened by linear Stark effect. Journal of Physics B: Atomic, Molecular and Optical Physics, 2019, 52, 245001.             | 1.5 | 3         |
| 63 | Modeling penetrating collisions in the standard line broadening impact theory for hydrogen. High Energy Density Physics, 2019, 30, 52-59.                                       | 1.5 | 3         |
| 64 | Simultaneous X-ray and XUV absorption measurements in nickel laser-produced plasma close to LTE. High Energy Density Physics, 2019, 31, 83-91.                                  | 1.5 | 3         |
| 65 | Free-free matrix-elements for two-photon opacity. High Energy Density Physics, 2020, 34, 100717.  | 1.5 | 3         |
| 66 | Angular momentum distribution in a relativistic configuration: magnetic quantum number analysis. Journal of Physics B: Atomic, Molecular and Optical Physics, 2021, 54, 145002. | 1.5 | 3         |
| 67 | Ionization by electron impacts and ionization potential depression. Journal of Physics B: Atomic, Molecular and Optical Physics, 2022, 55, 105001.                              | 1.5 | 3         |
| 68 | ON THE EXISTENCE OF SHOCK INSTABILITIES AT HUGONIOT PRESSURES BEYOND THE MINIMUM VOLUME. , 2009, , .  |     | 2         |
| 69 | Self-consistent modelling of hot plasmas within non-extensive Tsallis's™ thermostatistics. European Physical Journal D, 2011, 65, 441-445.                                      | 1.3 | 2         |
| 70 | Comment on "A note on generalized radial mesh generation for plasma electronic structure". High Energy Density Physics, 2011, 7, 224.   | 1.5 | 2         |
| 71 | Description of anomalous Zeeman patterns in stellar astrophysics. EAS Publications Series, 2012, 58, 69-73.   | 0.3 | 2         |
| 72 | Statistical properties of levels and lines in complex spectra: A tribute to Jacques Bauche and Claire Bauche-Arnoult. AIP Conference Proceedings, 2017, , .                     | 0.4 | 2         |

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|----|---|-----|-----------|
| 73 | Analysis of the X-ray emission spectra of copper, germanium and rubidium plasmas produced at the Phelix laser facility. AIP Conference Proceedings, 2017, , .   | 0.4 | 2         |
| 74 | H- $\hat{I}^2$ Line in a Corona Helium Plasma: A Multi-Code Line Shape Comparison. Atoms, 2018, 6, 29.  | 1.6 | 2         |
| 75 | Some properties of Wigner 3j coefficients: non-trivial zeros and connections to hypergeometric functions. European Physical Journal A, 2020, 56, 1.   | 2.5 | 2         |
| 76 | New sum rules for Wigner 3jm symbols: application to expectation values of hydrogenic ions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2021, 54, 065002.  | 1.5 | 2         |
| 77 | Exact expressions for the number of levels in single- $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ orbits for three, four, and five fermions. Physical Review C, 2021, 104, . | 2.9 | 2         |
| 78 | Sum rules for Clebschâ€“Gordan coefficients from group theory and Runge-Lenz-Pauli vector. Journal of Physics Communications, 2022, 6, 055007.  | 1.2 | 2         |
| 79 | Stark effect modeling in the detailed opacity code SCO-RCC. Journal of Physics: Conference Series, 2016, 717, 012074.   | 0.4 | 1         |
| 80 | Opacity spectra of silicon and carbon in ICF plasmas. AIP Conference Proceedings, 2017, , .   | 0.4 | 1         |
| 81 | K-shell spectroscopy in hot plasmas: Stark effect, Breit interaction and QED corrections. AIP Conference Proceedings, 2017, , .   | 0.4 | 1         |
| 82 | On the vacuum-polarization Uehling potential for a Fermi charge distribution. European Physical Journal D, 2018, 72, 1.   | 1.3 | 1         |
| 83 | Comment on electron-impact excitation cross section measurements for He-like xenon. Canadian Journal of Physics, 2019, 97, 576-578.   | 1.1 | 1         |
| 84 | Unusual sum rule for Clebschâ€“Gordan coefficients. Letters in Mathematical Physics, 2019, 109, 2485-2490.  | 1.1 | 1         |
| 85 | Electron Broadening Operator Including Penetrating Collisions for Hydrogen. Atoms, 2020, 8, 2.  | 1.6 | 1         |
| 86 | Distribution of the total angular momentum in relativistic configurations. Journal of Physics B: Atomic, Molecular and Optical Physics, 2021, 54, 145006.   | 1.5 | 1         |
| 87 | Expression of Relativistic Expectation Values of Powers of r in Terms of Clebschâ€“Gordan Coefficients. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2020, 128, 1105-1109.   | 0.6 | 1         |
| 88 | Radiative properties in ICF plasmas. Proceedings of SPIE, 2011, , .   | 0.8 | 0         |
| 89 | Theoretical interpretation for 2p $\hat{I}$ ndabsorption spectra of iron, nickel, and copper in X-ray range measured at the LULI2000 facility. EPJ Web of Conferences, 2013, 59, 14001.   | 0.3 | 0         |
| 90 | Analysis of X-ray and Thomson scattering data from non-LTE Nb and Ta plasmas. High Energy Density Physics, 2015, 16, 41-52.   | 1.5 | 0         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 91 | Configuration interaction effect on open M shell Fe and Ni LTE spectral opacities, Rosseland and Planck means. Journal of Physics: Conference Series, 2016, 717, 012017. | 0.4 | 0         |
| 92 | Calculation of atomic structures and radiative properties of fusion plasmas. AIP Conference Proceedings, 2017, , .   | 0.4 | 0         |
| 93 | Expression of the Holtsmark function in terms of hypergeometric ${}_2F_2$ and Airy Bi functions. European Physical Journal Plus, 2020, 135, 1.                           | 2.6 | 0         |
| 94 | A note on recursive calculations of particular 9jcoefficients. Lithuanian Journal of Physics, 2011, 51, 194-198.   | 0.4 | 0         |
| 95 | L'oscillo-sismologie et l'énigme de l'opacité du fer. , 2018, , 10-15.   | 0.1 | 0         |
| 96 | On the Wigner-Kirkwood Expansion of the Free Energy and the Evaluation of the Quantum Correction. Atoms, 2022, 10, 65.   | 1.6 | 0         |