# L M Fraile

List of Publications by Year
in descending order



| | | | |
|---|---|---|---|
| 345 papers | 6,055 citations | 66343 42 h-index | 114465 63 g-index |
| 349 all docs | 349 docs citations | 349 times ranked | 2745 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Revised rates for the stellar triple-Î± process from measurement of 12C nuclear resonances. Nature, 2005, 433, 136-139. | 27.8 | 205 |
| 2 | Elastic Scattering and Reaction Mechanisms of the Halo Nucleus<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi>Be</mml:mi><mml:mprescripts /><mml:none /><mml:mn>11</mml:mn></mml:mmultiscripts></mml:math>around the Coulomb Barrier. Physical Review Letters, 2010, 105, 022701. | 7.8 | 163 |
| 3 | Low-Lying Intruder Spectroscopy of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mn>0</mml:mn><mml:mo>+</mml:mo></mml:msup></mml:math>State in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi>Mg</mml:mi><mml:mprescripts /><mml:none /><mml:mn>32</mml:mn></mml:mmultiscripts></mml:math>by a Two Neutron Transfer Reaction. Physical Review Letters, 2010, 105, 252501. | 7.8 | 138 |
| 4 | Nuclear Charge Radii of Neutron-Deficient Lead Isotopes BeyondN=104Midshell Investigated by In-Source Laser Spectroscopy. Physical Review Letters, 2007, 98, 112502. | 7.8 | 116 |
| 5 | Measurement of the Electric Form Factor of the Neutron up to<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mi>Q</mml:mi><mml:mn>2</mml:mn></mml:msup><mml:mo>=</mml:mo><mml:mn>3.4</mml:mn> the Reaction<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mn /><mml:mn>3</mml:mn></mml:msup><mml:mover accent="true" | 7.8 | 110 |
| 6 | Experimental study of the collision<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>11</mml:mn></mml:msup></mml:math>Be +<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>64</mml:mn></mml:msup></mml:math>Zn around the Coulomb barrier. Physical Review C, 2012, 85, . | 2.9 | 103 |
| 7 | Deformation of theN=ZNucleusSr76usingÎ²-Decay Studies. Physical Review Letters, 2004, 92, 232501. | 7.8 | 101 |
| 8 | Storage ring at HIE-ISOLDE. European Physical Journal: Special Topics, 2012, 207, 1-117. | 2.6 | 101 |
| 9 | Longitudinal momentum distributions of 16,18C fragments after one-neutron removal from 17,19C. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 439, 256-261. | 4.1 | 97 |
| 10 | Shape Coexistence in the Neutron-Deficient Even-Even<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi>Hg</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>182</mml:mn><mml:mo>â^’</mml:mo><mml:mn>188</mml:mn></mml:mrow></mml:mmultiscripts></mml: | 7.8 | 96 |
| 11 | Beyond the neutron dripline: The unbound oxygen isotopes<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>25</mml:mn></mml:msup></mml:math>O and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>26</mml:mn></mml:msup></mml:math>O. Physical Review C, 2012, 85, . | 2.9 | 93 |
| 12 | The electronâ€“ion scattering experiment ELISe at the International Facility for Antiproton and Ion Research (FAIR)â€”A conceptual design study. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 637, 60-76. | 1.6 | 85 |
| 13 | The generalized centroid difference method for picosecond sensitive determination of lifetimes of nuclear excited states using large fast-timing arrays. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 726, 183-200. | 1.6 | 81 |
| 14 | Interplay between Single-Particle and Collective Effects in the Odd-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>A</mml:mi></mml:math>Cu Isotopes beyond<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>N</mml:mi><mml:mo>=</mml:mo><mml:mn>40</mml:mn></mml:math>. Physical Review Letters, 2008, 100, 112502. | 7.8 | 80 |
| 15 | The Î²2p decay mechanism of Ar. Nuclear Physics A, 2000, 677, 38-60. | 1.5 | 79 |
| 16 | Shell Structure of the Near-Dripline NucleusO23. Physical Review Letters, 2004, 93, 062501. | 7.8 | 78 |
| 17 | Nuclear structure ofTh229. Physical Review C, 2006, 73, . | 2.9 | 73 |
| 18 | Coulomb Excitation ofCu68,70: First Use of Postaccelerated Isomeric Beams. Physical Review Letters, 2007, 98, 122701. | 7.8 | 70 |

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| 19 | Reactions on Oxygen Isotopes: Observation of Isospin Independence of the Reduced Single-Particle Strength. Physical Review Letters, 2018, 120, 052501. | 7.8 | 69 |
| 20 | New results on the halo structure of B. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 452, 1-7. | 4.1 | 66 |
| 21 | â€œSafeâ€•Coulomb Excitation ofMg30. Physical Review Letters, 2005, 94, 172501. | 7.8 | 66 |
| 22 | Coulomb Excitation of Neutron-Rich Zn Isotopes: First Observation of the21+State inZn80. Physical Review Letters, 2007, 99, 142501. | 7.8 | 66 |
| 23 | B(GT)strength fromÎ²-decay measurements and inferred shape mixing inKr74. Physical Review C, 2004, 69, . | 2.9 | 63 |
| 24 | Experimental evidence for the 8B ground state configuration. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 529, 36-41. | 4.1 | 62 |
| 25 | Study of 10Li via the 9Li(2H,â€‰p) reaction at REX-ISOLDE. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 642, 449-454. | 4.1 | 62 |
| 26 | Breakup of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">C</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>12</mml:mn></mml:mrow></mml:mmultiscripts></mml:math>resonances into three<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Î±</mml:mi></mml:mrow></mml:math>particles. Physical Review | 2.9 | 62 |
| 27 | Improved Limit on Direct<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î±</mml:mi></mml:math>Decay of the Hoyle State. Physical Review Letters, 2012, 108, 062501. | 7.8 | 61 |
| 28 | Shape Coexistence Near Neutron Number<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>N</mml:mi><mml:mo>=</mml:mo><mml:mn>20</mml:mn></mml:math>: First Identification of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>E</mml:mi><mml:mn>0</mml:mn></mml:math>Decay from the Deformed First Excited<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><m | 7.8 | 60 |
| 29 | Charge radii and magnetic moments of odd- A 183-189Pb isotopes. European Physical Journal A, 2009, 41, 315-321. | 2.5 | 60 |
| 30 | <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>R</mml:mi></mml:mrow></mml:math>-matrix analysis of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Î²</mml:mi></mml:mrow></mml:math>decays of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">N</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>12</mml:m | 2.9 | 59 |
| 31 | Low-energy Coulomb excitation of neutron-rich zinc isotopes. Physical Review C, 2009, 79, . | 2.9 | 58 |
| 32 | Germanium-gated Î³â€“Î³ fast timing of excited states in fission fragments using the EXILL&FATIMA spectrometer. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 763, 210-220. | 1.6 | 58 |
| 33 | Angular momentum generation in nuclear fission. Nature, 2021, 590, 566-570. | 27.8 | 57 |
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| 35 | Performance evaluation of SiPM photodetectors for PET imaging in the presence of magnetic fields. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 613, 308-316. | 1.6 | 56 |
| 36 | Novel thin window design for a large-area silicon strip detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 525, 458-464. | 1.6 | 51 |

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| 37 | New structure information on 30Mg, 31Mg and 32Mg. European Physical Journal A, 2005, 25, 105-109. | 2.5 | 49 |
| 38 | Radioactive beams at REXâ€“ISOLDE: Present status and latest developments. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 4103-4107. | 1.4 | 49 |
| 39 | Beta-decay properties of the neutron-rich 94â€“99Kr and 142â€“147Xe isotopes. Nuclear Physics A, 2003, 714, 21-43. | 1.5 | 48 |
| 40 | Fast timing study of a CeBr3 crystal: Time resolution below 120ps at 60Co energies. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 701, 235-242. | 1.6 | 48 |
| 41 | Î²-decay studies of neutron-rich K isotopes. Physical Review C, 2006, 74, . | 2.9 | 44 |
| 42 | Nuclear and Coulomb breakup of B. Nuclear Physics A, 2003, 720, 3-19. | 1.5 | 42 |
| 43 | Characterization of the low-lying<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mn>0</mml:mn><mml:msup><mml:mrow /><mml:mo>+</mml:mo></mml:msup></mml:math>and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mn>2</mml:mn><mml:msup><mml:mrow /><mml:mo>+</mml:mo></mml:msup></mml:math>states in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi mathvariant="norm | 2.9 | 42 |
| 44 | Beta decay of 31Ar. Nuclear Physics A, 1998, 634, 475-496. | 1.5 | 40 |
| 45 | Properties of the 12C 10 MeV state determined through Î²-decay. Nuclear Physics A, 2005, 760, 3-18. | 1.5 | 40 |
| 46 | One-nucleon removal cross-sections for 17, 19C and 8, 10B. European Physical Journal A, 2001, 10, 49-56. | 2.5 | 39 |
| 47 | EXILLâ€”a high-efficiency, high-resolution setup for Î³-spectroscopy at an intense cold neutron beam facility. Journal of Instrumentation, 2017, 12, P11003-P11003. | 1.2 | 39 |
| 48 | Experimental study of the lifetime and phase transition in neutron-rich <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Zr</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>98</mml:mn><mml:mo>,</mml:mo><mml:mn>100</mml:mn><mml:mo>,</mml:mo><mml:mn>102</mml:mn><mml:m Physical Review C, 2017, 96, . | 2.9 | 38 |
| 49 | On the -decay of C. Nuclear Physics A, 2001, 692, 427-450. | 1.5 | 36 |
| 50 | Coulomb excitation of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msubsup><mml:mi /><mml:mrow><mml:mn>28</mml:mn></mml:mrow><mml:mrow><mml:mn>68</mml:mn></mml:mrow></mml:msubsup><mml:msub mathvariant="normal">Ni</mml:mi><mml:mrow><mml:mn>40</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>at â€œsafe€• energies. Physical Review C, 2008, 78, . | 2.9 | 35 |
| 51 | <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi>Ne</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>15</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow></mml:math>. Physical Review Letters, 2014, 112, 132502. | 7.8 | 35 |
| 52 | Oxide fiber targets at ISOLDE. Nuclear Instruments & Methods in Physics Research B, 2003, 204, 303-313. | 1.4 | 34 |
| 53 | <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mmultiscripts><mml:mrow><mml:mi mathvariant="normal">Be</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>11</mml:mn></mml:mrow></mml:mmultiscripts><mml:mo stretchy="false">(</mml:mo><mml:mi>Î²</mml:mi><mml:mi mathvariant="normal">p</mml:mi><mml:mo) Tj ETQq1 1 0.784314 rgB | 4.1 | 33 |
| 54 | Large asymmetry in the strongest Î²-transition for A=9. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 576, 55-61. | 4.1 | 32 |

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| 55 | Level structure of odd-oddSb134populated in theÎ²âˆ’decays ofSn134,135. Physical Review C, 2005, 71, . | 2.9 | 31 |
| 56 | Measurement of the neutron background at the Canfranc Underground Laboratory LSC. Astroparticle Physics, 2013, 42, 1-6. | 4.3 | 31 |
| 57 | Performance evaluation of novel LaBr 3 (Ce) scintillator geometries for fast-timing applications. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 857, 98-105. | 1.6 | 31 |
| 58 | Coupling of valence particles/holes to 68,70Ni studied via measurements of the B(E2) strength in 67,69,70Ni and 71Cu. Nuclear Physics A, 2003, 719, C213-C216. | 1.5 | 29 |
| 59 | Angular shape transition at neutron number <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>N</mml:mi><mml:mo>=</mml:mo><mml:mn>60</mml:mn> : <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>B</mml:mi><mml:mo>(</mml:mo><mml:mi>E</mml:mi> values in <mml:math | 2.9 | 29 |
| 60 | Large Impact of the Decay of Niobium Isomers on the Reactor <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mover accent="true"><mml:mi>Î½</mml:mi><mml:mo stretchy="false">Â¯</mml:mo></mml:mover><mml:mi>e</mml:mi></mml:msub></mml:math> Summation Calculations. Physical Review Letters, 2019, 122, 042502. | 7.8 | 29 |
| 61 | FATIMA â€" FAst TIMing Array for DESPEC at FAIR. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 969, 163967. | 1.6 | 29 |
| 62 | Shape study of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>N</mml:mi><mml:mo>=</mml:mo><mml:mi>Z</mml:mi> <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mtext>Kr</mml:mtext><mml:mprescripts /><mml:none /><mml:mn>72</mml:mn></mml:mmultiscripts></mml:math>via<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î²</mml:mi></mml:math>decay. Physical Review C, 2015, 92, . | 2.9 | 28 |
| 63 | Two-proton emission in the decay of 31Ar. Nuclear Physics A, 1998, 628, 345-362. | 1.5 | 27 |
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| 65 | The mutable nature of particle-core excitations with spin in the one-valence-proton nucleus 133 Sb. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 760, 273-278. | 4.1 | 27 |
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| 67 | low-energy<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>12</mml:mn></mml:msup></mml:math>Be through low-energy<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>11</mml:mn></mml:msup></mml:math>Be<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" | | |

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| 73 | 31Arexamined: New limit on the Î²-delayed three-proton branch. Physical Review C, 1999, 59, 2275-2277. | 2.9 | 23 |
| 74 | Branching ratios in the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Î²</mml:mi></mml:mrow></mml:math>decays of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">N</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>12</mml:mn></mml:mrow></mml:mmultiscripts></mml:math>and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mat | 2.9 | 23 |
| 75 | Coulomb excitation of 31Mg. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 700, 181-186. | 4.1 | 22 |
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| 79 | Mass spectrometry and decay spectroscopy of isomers across theZ=82shell closure. Physical Review C, 2013, 88, . | 2.9 | 21 |
| 80 | First experiment with the NUSTAR/FAIR Decay Total Absorption <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si3.gif" overflow="scroll"><mml:mrow><mml:mi>Î³</mml:mi></mml:mrow></mml:math>-Ray Spectrometer (DTAS) at the IGISOL IV facility. Nuclear Instruments & Methods in Physics Research B, 2016, 376, 334-337. | 1.4 | 21 |
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| 84 | The sensitivity of LaBr3:Ce scintillation detectors to low energy neutrons: Measurement and Monte Carlo simulation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 774, 17-24. | 1.6 | 20 |
| 85 | Low energy reactions with radioactive ions at REX-ISOLDEâ€"the 9Li+2H case. Nuclear Physics A, 2005, 748, 374-392. | 1.5 | 19 |
| 86 | Î²-decay of22O. Journal of Physics G: Nuclear and Particle Physics, 2005, 31, 553-561. | 3.6 | 19 |
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| 88 | Precise half-life measurements for 38Ca and 39Ca. European Physical Journal A, 2010, 44, 363-372. | 2.5 | 19 |
| 89 | Search for shape-coexisting <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mn>0</mml:mn><mml:mo>+</mml:mo></mml:msup></m states in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Ni</mml:mi><mml:mprescripts /><mml:none /><mml:mn>66</mml:mn></mml:mmultiscripts></mml:math> from lifetime measurements. | 2.9 | 19 |
| 90 | Alternative approach to populate and study the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Th</mml:mi><mml:mprescripts /><mml:none /><mml:mn>229</mml:mn></mml:mmultiscripts></mml:math> nuclear clock isomer. Physical Review C, 2019, 100, . | 2.9 | 19 |

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| 94 | New isomer in <sup>96</sup> Y marking the onset of deformation at N = 57. Europhysics Letters, 2017, 117, 12001. | 2.0 | 18 |
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