

Maria B Barbaro

List of Publications by Year in descending order

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79
papers

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218677

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times ranked

421
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Neutrino energy reconstruction from semi-inclusive samples. <i>Physical Review C</i> , 2022, 105, . | 2.9 | 10 |
| 2 | SuSAv2 model for inelastic neutrino-nucleus scattering. <i>Physical Review D</i> , 2022, 105, . | 4.7 | 5 |
| 3 | The SuSA Model for Neutrino Oscillation Experiments: From Quasielastic Scattering to the Resonance Region. <i>Universe</i> , 2021, 7, 140. | 2.5 | 7 |
| 4 | Neutrino-nucleus scattering in the SuSA model. <i>European Physical Journal: Special Topics</i> , 2021, 230, 4321-4338. | 2.6 | 12 |
| 5 | Theoretical description of semi-inclusive 12C , $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> \langle \text{mml:mrow}> \langle \text{mml:mi}> \text{MINER} \langle / \text{mml:mi}> \langle \text{mml:mi}> \hat{1}/2 \langle / \text{mml:mi}> \langle \text{mml:mi}> \text{mathvariant="normal"}> \text{A} \langle / \text{mml:mi}> \langle / \text{mml:mrow}> \langle / \text{mml:math}>$ and MicroBooNE neutrino-nucleus data in the relativistic plane wave impulse approximation. <i>Physical Review D</i> , 2021, 104, . | 4.7 | 5 |
| 6 | Constraints in modeling the quasielastic response in inclusive lepton-nucleus scattering. <i>Physical Review C</i> , 2020, 101, . | 2.9 | 27 |
| 7 | New evaluation of the axial nucleon form factor from electron- and neutrino-scattering data and impact on neutrino-nucleus cross sections. <i>Physical Review C</i> , 2020, 101, . | 2.9 | 14 |
| 8 | Electron- versus neutrino-nucleus scattering. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2020, 47, 124001. | 3.6 | 33 |
| 9 | Semi-inclusive charged-current neutrino-nucleus cross sections in the relativistic plane-wave impulse approximation. <i>Physical Review C</i> , 2020, 102, . | 2.9 | 9 |
| 10 | Charged-current quasielastic (anti)neutrino cross sections on 12C with realistic spectral functions including meson-exchange contributions. <i>AIP Conference Proceedings</i> , 2019, , . | 0.4 | 3 |
| 11 | Analysis of the MINERvA antineutrino double-differential cross sections within the SuSAv2 model including meson-exchange currents. <i>Physical Review D</i> , 2019, 99, . | 4.7 | 13 |
| 12 | Realistic spectral function model for charged-current quasielastic-like neutrino and antineutrino scattering cross sections on $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"> \langle \text{mml:mmultiscripts}> \langle \text{mml:mi mathvariant="normal"> C \langle / \text{mml:mi}> \langle \text{mml:mprescripts} /> \langle \text{mml:none} /> \langle \text{mml:mn}> 12 \langle / \text{mml:mn}> \langle / \text{mml:mmultiscripts}> \langle / \text{mml:math}>$. <i>Physical Review C</i> , 2019, 99, . | 2.9 | 17 |
| 13 | Mean-field and two-body nuclear effects in inclusive electron scattering on argon, carbon, and titanium: The superscaling approach. <i>Physical Review C</i> , 2019, 99, . | 2.9 | 19 |
| 14 | Neutrino- ^{16}O scattering in the SuSAv2-MEC model. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2019, 46, 015104. | 3.6 | 28 |
| 15 | Asymmetric relativistic Fermi gas model for quasielastic lepton-nucleus scattering. <i>Physical Review C</i> , 2018, 98, . | 2.9 | 8 |
| 16 | Meson-exchange currents and quasielastic predictions for neutrino-nucleus scattering. , 2018, , . | | 0 |
| 17 | Density dependence of 2p-2h meson-exchange currents. <i>Physical Review C</i> , 2017, 95, . | 2.9 | 15 |
| 18 | Relativistic model of 2p-2h meson exchange currents in (anti)neutrino scattering. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2017, 44, 065105. | 3.6 | 48 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Charged-current inclusive neutrino cross sections in the SuperScaling model. AIP Conference Proceedings, 2016, , . | 0.4 | 0 |
| 20 | Charged-current neutrino-nucleus reactions within the superscaling meson-exchange current approach. Physical Review D, 2016, 94, . | 4.7 | 88 |
| 21 | Inclusive electron scattering within the SuSAv2 meson-exchange current approach. Physical Review D, 2016, 94, . | 4.7 | 61 |
| 22 | Emission of neutron-proton and proton-proton pairs in electron scattering induced by meson-exchange currents. Physical Review C, 2016, 94, . | 2.9 | 9 |
| 23 | Charged-current inclusive neutrino cross sections in the superscaling model including quasielastic, pion production and meson-exchange contributions. Journal of Physics G: Nuclear and Particle Physics, 2016, 43, 045101. | 3.6 | 28 |
| 24 | Estimate of the theoretical uncertainty of the cross sections for nucleon knockout in neutral-current neutrino-oxygen interactions. Physical Review C, 2015, 92, . | 2.9 | 10 |
| 25 | Meson-exchange currents and quasielastic predictions for charged-current neutrino scattering in the superscaling approach. Physical Review D, 2015, 91, . | 4.7 | 64 |
| 26 | Superscaling in electron-nucleus scattering and its link to CC and NC QE neutrino-nucleus scattering. AIP Conference Proceedings, 2015, , . | 0.4 | 0 |
| 27 | Neutral current quasielastic (anti)neutrino scattering beyond the Fermi gas model at MiniBooNE and BNL kinematics. Physical Review C, 2015, 91, . | 2.9 | 7 |
| 28 | Nuclear effects in neutrino and antineutrino charged-current quasielastic scattering at MINERvA kinematics. Physical Review D, 2014, 89, . | 4.7 | 28 |
| 29 | Angular distribution in two-particle emission induced by neutrinos and electrons. Physical Review D, 2014, 90, . | 4.7 | 16 |
| 30 | Relativistic effects in two-particle emission for electron and neutrino reactions. Physical Review D, 2014, 90, . | 4.7 | 30 |
| 31 | Charged-current quasielastic neutrino scattering cross sections on C with realistic spectral and scaling functions. Physical Review C, 2014, 89, . | 2.9 | 22 |
| 32 | Extensions of superscaling from relativistic mean field theory: The SuSAv2 model. Physical Review C, 2014, 90, . | 2.9 | 79 |
| 33 | Relativistic description of final-state interactions in neutral-current neutrino and antineutrino cross sections. Physical Review C, 2013, 88, . | 2.9 | 22 |
| 34 | Scaling properties of the pairing problem in the strong coupling limit. Annals of Physics, 2013, 337, 221-237. | 2.8 | 0 |
| 35 | Relativistic models for quasi-elastic neutrino-nucleus scattering. , 2012, , . | | 2 |
| 36 | Scaling ideas in neutrino scattering reactions: application to the MiniBooNE experiment. Journal of Physics: Conference Series, 2012, 366, 012006. | 0.4 | 0 |

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| 37 | Meson-Exchange Currents and Quasielastic Antineutrino Cross Sections in the Superscaling Approximation. <i>Physical Review Letters</i> , 2012, 108, 152501. | 7.8 | 73 |
| 38 | Nuclear effects in charged-current quasielastic neutrino-nucleus scattering. <i>Journal of Physics: Conference Series</i> , 2011, 336, 012024. | 0.4 | 2 |
| 39 | Meson-exchange currents and quasielastic neutrino cross sections in the superscaling approximation model. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011, 696, 151-155. | 4.1 | 112 |
| 40 | Connecting scaling with short-range correlations. <i>Physical Review C</i> , 2011, 84, . | 2.9 | 2 |
| 41 | Relativistic analyses of quasielastic neutrino cross sections at MiniBooNE kinematics. <i>Physical Review D</i> , 2011, 84, . | 4.7 | 68 |
| 42 | Scaling function, spectral function, and nucleon momentum distribution in nuclei. <i>Physical Review C</i> , 2011, 83, . | 2.9 | 25 |
| 43 | Relativistic Descriptions of Final-State Interactions in Charged-Current Quasielastic Neutrino-Nucleus Scattering at MiniBooNE Kinematics. <i>Physical Review Letters</i> , 2011, 107, 172501. | 7.8 | 51 |
| 44 | Superscaling predictions for NC and CC quasi-elastic neutrino-nucleus scattering. , 2011, , . | | 0 |
| 45 | Nuclear effects in neutrino-nucleus interactions. <i>Journal of Physics: Conference Series</i> , 2010, 205, 012015. | 0.4 | 0 |
| 46 | Meson-exchange currents and final-state interactions in quasielastic electron scattering at high momentum transfers. <i>Physical Review C</i> , 2010, 81, . | 2.9 | 10 |
| 47 | Scaling function and nucleon momentum distribution. <i>Physical Review C</i> , 2010, 81, . | 2.9 | 15 |
| 48 | Pionic correlations and meson-exchange currents in two-particle emission induced by electron scattering. <i>Physical Review C</i> , 2010, 82, . | 2.9 | 38 |
| 49 | Longitudinal and transverse scaling functions within the coherent density fluctuation model. <i>Physical Review C</i> , 2009, 79, . | 2.9 | 11 |
| 50 | Fermion propagators in space-time. <i>Physical Review C</i> , 2009, 80, . | 2.9 | 2 |
| 51 | Superscaling of non-quasielastic electron-nucleus scattering. <i>Physical Review C</i> , 2009, 80, . | 2.9 | 32 |
| 52 | Nuclear effects in electron reactions and their impact on neutrino processes. , 2009, , . | | 1 |
| 53 | Neutrino Interactions Importance to Nuclear Physics. <i>AIP Conference Proceedings</i> , 2009, , . | 0.4 | 2 |
| 54 | Model for BCS-type correlations in superscaling. <i>Physical Review C</i> , 2008, 78, . | 2.9 | 5 |

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| 55 | Superscaling and charge-changing neutrino scattering from nuclei in the $\hat{\Gamma}$ region beyond the relativistic Fermi gas model. <i>Physical Review C</i> , 2008, 77, . | 2.9 | 22 |
| 56 | Superscaling analyses of inclusive electron scattering and their extension to charge-changing neutrino cross sections in nuclei. <i>AIP Conference Proceedings</i> , 2007, , . | 0.4 | 1 |
| 57 | Final-state interactions and superscaling in the semi-relativistic approach to quasielastic electron and neutrino scattering. <i>Physical Review C</i> , 2007, 75, . | 2.9 | 46 |
| 58 | Superscaling and neutral current quasielastic neutrino-nucleus scattering beyond the relativistic Fermi gas model. <i>Physical Review C</i> , 2007, 75, . | 2.9 | 22 |
| 59 | Quasielastic Charged-Current Neutrino-Nucleus Scattering. <i>Physical Review Letters</i> , 2007, 98, 242501. | 7.8 | 29 |
| 60 | Superscaling and neutral current quasielastic neutrino-nucleus scattering. <i>Physical Review C</i> , 2006, 73, . | 2.9 | 45 |
| 61 | Superscaling in electron- and neutrino-nucleus scattering. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2006, 159, 186-191. | 0.4 | 8 |
| 62 | Nuclear response functions for the $N\text{-N}\hat{\alpha}^-(1440)$ transition. <i>AIP Conference Proceedings</i> , 2006, , . | 0.4 | 0 |
| 63 | Superscaling analysis of inclusive electron scattering and its extension to charge-changing neutrino-nucleus cross sections beyond the relativistic Fermi gas approach. <i>Physical Review C</i> , 2006, 74, . | 2.9 | 40 |
| 64 | The generalised relativistic Lindhard functions. <i>European Physical Journal A</i> , 2005, 25, 299-318. | 2.5 | 6 |
| 65 | Semirelativistic description of quasielastic neutrino reactions and superscaling in a continuum shell model. <i>Physical Review C</i> , 2005, 71, . | 2.9 | 64 |
| 66 | Superscaling in Charged Current Neutrino Quasielastic Scattering in the Relativistic Impulse Approximation. <i>Physical Review Letters</i> , 2005, 95, 252502. | 7.8 | 84 |
| 67 | Using electron scattering superscaling to predict charge-changing neutrino cross sections in nuclei. <i>Physical Review C</i> , 2005, 71, . | 2.9 | 153 |
| 68 | Goldstone bosons in the pairing Hamiltonian: The path integral approach. <i>Physical Review C</i> , 2004, 70, . | 2.9 | 4 |
| 69 | Inelastic electron-nucleus scattering and scaling at high inelasticity. <i>Physical Review C</i> , 2004, 69, . | 2.9 | 48 |
| 70 | The many levels pairing Hamiltonian for two pairs. <i>European Physical Journal A</i> , 2004, 22, 377-390. | 2.5 | 3 |
| 71 | Semirelativistic meson-exchange currents in $(e, e\hat{\alpha}^2)$ and $(e, e\hat{\alpha}^2p)$ reactions. <i>Physical Review C</i> , 2003, 68, . | 2.9 | 15 |
| 72 | Pairing Hamiltonian for one pair of identical nucleons bound in a potential well. <i>Physical Review C</i> , 2001, 64, . | 2.9 | 2 |

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|----|--|-----|-----------|
| 73 | Relativistic Hamiltonians in many-body theories. Physical Review C, 1996, 53, 2801-2808. | 2.9 | 4 |
| 74 | Probing nucleon strangeness with neutrinos: Nuclear model dependences. Physical Review C, 1996, 54, 1954-1969. | 2.9 | 40 |
| 75 | An analysis of eta -production via the p6Li to eta7Be reaction. Journal of Physics G: Nuclear and Particle Physics, 1993, 19, 403-415. | 3.6 | 11 |
| 76 | A model for cluster confinement in one dimensional many-body systems. Zeitschrift Für Physik A, 1992, 341, 327-337. | 0.9 | 3 |
| 77 | Deuteron analysing powers in the charge exchange reaction. Nuclear Physics A, 1991, 529, 653-674. | 1.5 | 28 |
| 78 | Spin correlation parameters in the dp to (pp)n reaction. Journal of Physics G: Nuclear and Particle Physics, 1989, 15, L69-L72. | 3.6 | 3 |
| 79 | On the Semi-Classical Charge Longitudinal Response in ¹² C and ⁴⁰ Ca. Europhysics Letters, 1987, 4, 415-420. | 2.0 | 3 |