

Michael J Moravcsik

List of Publications by Year in descending order

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Version: 2024-02-01

80
papers

1,831
citations

361045

20
h-index

276539

41
g-index

81
all docs

81
docs citations

81
times ranked

448
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Amplitude-phase patterns: A new look at strong interactions. Nuclear Physics A, 1994, 578, 441-470. | 0.6 | 0 |
| 2 | Electromagnetic form factors from polarization experiments. Annals of Physics, 1990, 198, 371-405. | 1.0 | 10 |
| 3 | Intermediate energy phenomena, I.. AIP Conference Proceedings, 1989, , . | 0.3 | 0 |
| 4 | Amplitude systems for spin-1/2 particles. Journal De Physique, 1989, 50, 1167-1194. | 1.8 | 7 |
| 5 | Planar-Transverse Amplitude-Phase Pattern in Nonelastic Reactions. Physical Review Letters, 1989, 62, 517-519. | 2.9 | 5 |
| 6 | Complete formalism for charge-symmetry tests inn-pelastic scattering. Physical Review D, 1989, 39, 1297-1303. | 1.6 | 2 |
| 7 | Constraints of time reversal invariance in the polarization structure of reactions. Annals of Physics, 1989, 195, 167-189. | 1.0 | 1 |
| 8 | Photons in the transversity system. Annals of Physics, 1989, 195, 213-219. | 1.0 | 8 |
| 9 | Parity constraints on the polarization structure of reactions. Annals of Physics, 1989, 193, 80-92. | 1.0 | 2 |
| 10 | The limits of science and the scientific method. Research Policy, 1988, 17, 293-299. | 3.3 | 12 |
| 11 | INCLUSIVE REACTIONS WITH THREE POLARIZED PARTICLES. International Journal of Modern Physics A, 1988, 03, 1847-1858. | 0.5 | 3 |
| 12 | Sufficiency of double correlations in polarization analyses. Physical Review D, 1987, 36, 2165-2168. | 1.6 | 1 |
| 13 | The amplitude phase pattern of strong interactions at 45 GeV/c. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1987, 199, 563-566. | 1.5 | 4 |
| 14 | Polarization measurements in p-d elastic scattering: The structure of $\langle \text{mml:math display="inline" altimg="si1.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/co$ | 1.0 | 8 |
| 15 | Spin structure of $(1/2)^+ 1a_1^+(1/2)^+ 0$, the reaction $p+d \hat{a}^+ t + i\epsilon$ and its relatives. Physical Review C, 1986, 33, 1098-1100. | 1.1 | 2 |
| 16 | Use of polarization in pion-nucleon bremsstrahlung. Physical Review C, 1986, 34, 1411-1418. | 1.1 | 3 |
| 17 | The polarization structure of $p + p \hat{a}^+ d + i\epsilon$ and of spinwise similar reactions. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1985, 240, 43-62. | 0.7 | 7 |
| 18 | Testing the spin dependence of QCD-based models. Zeitschrift FÃ¼r Physik C-Particles and Fields, 1985, 28, 607-612. | 1.5 | 2 |

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|----|---|-----|-----------|
| 19 | Testing particle exchange in p-p scattering. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1985, 152, 265-270. | 1.5 | 6 |
| 20 | Should we expect large polarization effects at high energies?. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1985, 157, 235-238. | 1.5 | 2 |
| 21 | Spin analysis of $0+1 \rightarrow 0+1$ and its application to $\pi^+ \pi^+ \pi^+ d$ data. Physical Review D, 1985, 32, 2322-2333. | 1.6 | 6 |
| 22 | Interpreting pp-polarization at high energies. Physical Review D, 1985, 32, 303-305. | 1.6 | 7 |
| 23 | Amplitudes of the two-nucleon interaction at 579 MeV. Physical Review D, 1985, 32, 74-81. | 1.6 | 8 |
| 24 | Completing information on a high-energy strong-interaction reaction. Physical Review D, 1985, 31, 195-197. | 1.6 | 3 |
| 25 | Polarization phenomena in collinear reactions. Physical Review D, 1985, 31, 2986-2995. | 1.6 | 12 |
| 26 | Striking pattern of a strong-interaction reaction. Physical Review D, 1985, 31, 2360-2362. | 1.6 | 7 |
| 27 | Dynamics-Independent Null Experiment for Testing Time-Reversal Invariance. Physical Review Letters, 1985, 54, 2649-2652. | 2.9 | 22 |
| 28 | Amplitude description of elastic pp scattering at 800 MeV. Physical Review D, 1985, 31, 1577-1580. | 1.6 | 8 |
| 29 | Resolving the discrete ambiguities in amplitude determinations. Journal of Mathematical Physics, 1985, 26, 211-213. | 0.5 | 11 |
| 30 | Vector Polarization in Reactions with Spin-1 Particles. Physical Review Letters, 1984, 53, 1885-1887. | 2.9 | 7 |
| 31 | Polarization tests of one-particle-exchange mechanisms. Physical Review D, 1984, 30, 55-62. | 1.6 | 12 |
| 32 | Amplitude test of a Regge-pole model. Physical Review D, 1984, 30, 1899-1903. | 1.6 | 7 |
| 33 | Amplitude structure of off-shell processes. Physical Review D, 1984, 29, 2612-2624. | 1.6 | 19 |
| 34 | Quadratic constraints in amplitude analysis. Physical Review D, 1984, 29, 2625-2632. | 1.6 | 11 |
| 35 | Unambiguously Complete Characterization of Reactions. Physical Review Letters, 1984, 52, 2305-2308. | 2.9 | 13 |
| 36 | Polarization formalisms and experiments. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1984, 227, 108-114. | 0.7 | 5 |

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|----|---|-----|-----------|
| 37 | General transformation matrix for Dirac spinors and the calculation of spinorial amplitudes. Journal of Mathematical Physics, 1984, 25, 820-827. | 0.5 | 1 |
| 38 | Amplitude analysis of elastic $\pi^+\pi^0$ scattering at 6 GeV/cat all't's. Physical Review D, 1983, 28, 1086-1093. | 1.6 | 16 |
| 39 | Symmetry laws and the limits to the power of polarization experiments. Physical Review D, 1983, 27, 289-291. | 1.6 | 2 |
| 40 | Polarization phenomenology in the optimal representation. AIP Conference Proceedings, 1982, , . | 0.3 | 0 |
| 41 | Symmetry constraints in optimal polarization formalisms with an application to $\pi^+\pi^0$ scattering. Annals of Physics, 1982, 142, 219-283. | 1.0 | 62 |
| 42 | Polarization as an instrument to explore the phenomenology and dynamics of vector spaces. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1981, 102, 189-192. | 1.5 | 22 |
| 43 | Interfacing theory and experiment in polarization studies. Annals of Physics, 1980, 126, 176-197. | 1.0 | 12 |
| 44 | Polarization analysis of reactions with four spin- $\frac{1}{2}$ particles. Physical Review D, 1980, 22, 135-154. | 1.6 | 19 |
| 45 | The dynamics of scientific manpower and output. Research Policy, 1979, 8, 26-45. | 3.3 | 2 |
| 46 | The Role of Polarization in Microscopic Physics. , 1979, , 503-513. | | 0 |
| 47 | Variation of the nature of citation measures with journals and scientific specialties. Journal of the Association for Information Science and Technology, 1978, 29, 141-147. | 1.2 | 70 |
| 48 | A no-go theorem for polarization structure. Journal of Mathematical Physics, 1978, 19, 1371-1375. | 0.5 | 4 |
| 49 | Two views of science "as a student and " twenty ans apres". Physics Teacher, 1977, 15, 32-36. | 0.2 | 0 |
| 50 | The crisis in particle physics. Research Policy, 1977, 6, 78-107. | 3.3 | 8 |
| 51 | Optimally simple connection between the reaction matrix and the observables. Annals of Physics, 1976, 98, 128-159. | 1.0 | 64 |
| 52 | Some Results on the Function and Quality of Citations. Social Studies of Science, 1975, 5, 86-92. | 1.5 | 543 |
| 53 | The nondynamical structure of reactions involving four spin-1/2 particles. Annals of Physics, 1974, 84, 535-558. | 1.0 | 8 |
| 54 | Measures of scientific growth. Research Policy, 1973, 2, 266-275. | 3.3 | 41 |

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|----|--|------|-----------|
| 55 | The interaction of two nucleons. Reports on Progress in Physics, 1972, 35, 587-676. | 8.1 | 49 |
| 56 | Nondynamical Structure of Collinear Processes. Physical Review D, 1972, 5, 836-845. | 1.6 | 8 |
| 57 | On Brain Drain in the Philippines. Bulletin of the Atomic Scientists, 1971, 27, 36-36. | 0.2 | 2 |
| 58 | Optimal coordinate representations for particle reactions. Nuclear Physics A, 1971, 160, 569-576. | 0.6 | 7 |
| 59 | An introduction to x-coefficients and a tabulation of their values*. Atomic Data and Nuclear Data Tables, 1971, 9, 235-264. | 0.9 | 5 |
| 60 | Nondynamical Structure of Particle Reactions Containing Identical Particles. Physical Review D, 1970, 1, 1821-1834. | 1.6 | 8 |
| 61 | Determination of Invariant Amplitudes from Experimental Observables. Journal of Mathematical Physics, 1969, 10, 925-928. | 0.5 | 15 |
| 62 | Mirror Relations as Nondynamical Tests of Conservation Laws. Physical Review, 1968, 167, 1516-1522. | 2.7 | 11 |
| 63 | Nondynamical Tests of the CPT Theorem and Related Symmetries. Physical Review, 1968, 165, 1915-1922. | 2.7 | 9 |
| 64 | Non-Dynamical Structure of Photoproduction Processes. Reviews of Modern Physics, 1967, 39, 178-202. | 16.4 | 13 |
| 65 | General nondynamical formalism for reactions with particles of arbitrary spin. Number of form factors. Parity conservation. Annals of Physics, 1967, 41, 1-51. | 1.0 | 30 |
| 66 | General nondynamical formalism for reactions with particles of arbitrary spin: Rotation invariance. Annals of Physics, 1966, 40, 100-126. | 1.0 | 33 |
| 67 | Nondynamical Structure of the $He^3(d,p)He^4$ Reaction. Physical Review, 1966, 143, 775-779. | 2.7 | 22 |
| 68 | Nondynamical Formalism and Tests of Time-Reversal Invariance. Physical Review, 1966, 152, 1310-1324. | 2.7 | 20 |
| 69 | Search for a Spin-1 Intermediate Meson in Neutral Pion Photoproduction. Physical Review, 1962, 125, 734-744. | 2.7 | 14 |
| 70 | One-pion exchange and the optical model. Nuclear Physics (journal), 1962, 29, 582-603. | 2.0 | 8 |
| 71 | Modified Analysis of Nucleon-Nucleon Scattering. IV. $p\bar{p}$ Scattering between 9.68 and 98 Mev. Physical Review, 1961, 123, 1835-1839. | 2.7 | 8 |
| 72 | Modified Analysis of Nucleon-Nucleon Scattering. $p\bar{p}$ Phase Shifts at 210 Mev. Physical Review Letters, 1960, 4, 524-527. | 2.9 | 20 |

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|----|---|-----|-----------|
| 73 | Determination of the Pion-Nucleon Coupling Constant from Photoproduction Angular Distribution. Physical Review, 1959, 113, 689-694. | 2.7 | 32 |
| 74 | Modified Analysis of Nucleon-Nucleon Scattering. I. Theory and $p\bar{p}$ Scattering at 310 Mev. Physical Review, 1959, 114, 880-886. | 2.7 | 141 |
| 75 | Determination of the Pion-Nucleon Coupling Constant from $n\bar{p}$ Scattering Angular Distribution. Physical Review, 1959, 116, 226-230. | 2.7 | 47 |
| 76 | Evidence from Photoproduction for a Pseudoscalar K^+ Meson. Physical Review Letters, 1959, 2, 352-354. | 2.9 | 22 |
| 77 | Modified Analysis of Nucleon-Nucleon Scattering. II. Completed Analysis of $p\bar{p}$ Scattering at 310 Mev. Physical Review, 1959, 116, 1248-1256. | 2.7 | 52 |
| 78 | Negative to Positive Ratio from Nonrelativistic Theories of Pion Photoproduction. Physical Review, 1957, 105, 267-277. | 2.7 | 14 |
| 79 | Angular Distribution of Positive Pion Photoproduction from Hydrogen. Physical Review, 1957, 107, 600-603. | 2.7 | 11 |
| 80 | Method of Analysis of Charged Pion Photoproduction. Physical Review, 1956, 104, 1451-1453. | 2.7 | 45 |