Michael J Moravcsik

List of Publications by Year
in descending order

80	1,831	361413 20	276875 41
papers	citations	h-index	g-index

81	81	81	448
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Some Results on the Function and Quality of Citations. Social Studies of Science, 1975, 5, 86-92.	2.5	543
2	Modified Analysis of Nucleon-Nucleon Scattering. I. Theory andpâ^'pScattering at 310 Mev. Physical Review, 1959, 114, 880-886.	2.7	141
3	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.	1.0	70
4	Optimally simple connection between the reaction matrix and the observables. Annals of Physics, 1976, 98, 128-159.	2.8	64
5	Symmetry constraints in optimal polarization formalisms with an application to pâ^'p scattering. Annals of Physics, 1982, 142, 219-283.	2.8	62
6	Modified Analysis of Nucleon-Nucleon Scattering. II. Completed Analysis ofpâ^'pScattering at 310 Mev. Physical Review, 1959, 116, 1248-1256.	2.7	52
7	The interaction of two nucleons. Reports on Progress in Physics, 1972, 35, 587-676.	20.1	49
8	Determination of the Pion-Nucleon Coupling Constant fromnâ^'pScattering Angular Distribution. Physical Review, 1959, 116, 226-230.	2.7	47
9	Method of Analysis of Charged Pion Photoproduction. Physical Review, 1956, 104, 1451-1453.	2.7	45
10	Measures of scientific growth. Research Policy, 1973, 2, 266-275.	6.4	41
11	General nondynamical formalism for reactions with particles of arbitrary spin: Rotation invariance. Annals of Physics, 1966, 40, 100-126.	2.8	33
12	Determination of the Pion-Nucleon Coupling Constant from Photoproduction Angular Distribution. Physical Review, 1959, 113, 689-694.	2.7	32
13	General nondynamical formalism for reactions with particles of arbitrary spin. Number of form factors. Parity conservation. Annals of Physics, 1967, 41, 1-51.	2.8	30
14	Evidence from Photoproduction for a PseudoscalarK+Meson. Physical Review Letters, 1959, 2, 352-354.	7.8	22
15	Nondynamical Structure of theHe3(d,p)He4Reaction. Physical Review, 1966, 143, 775-779.	2.7	22
16	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.	4.1	22
17	Dynamics-Independent Null Experiment for Testing Time-Reversal Invariance. Physical Review Letters, 1985, 54, 2649-2652.	7.8	22
18	Modified Analysis of Nucleon-Nucleon Scattering.pâ^'pPhase Shifts at 210 Mev. Physical Review Letters, 1960, 4, 524-527.	7.8	20

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19	Nondynamical Formalism and Tests of Time-Reversal Invariance. Physical Review, 1966, 152, 1310-1324.	2.7	20
20	Polarization analysis of reactions with four spin-Â½ particles. Physical Review D, 1980, 22, 135-154.	4.7	19
21	Amplitude structure of off-shell processes. Physical Review D, 1984, 29, 2612-2624.	4.7	19
22	Amplitude analysis of elasticpâ¯pscattering at 6 GeV/cat allt's. Physical Review D, 1983, 28, 1086-1093.	4.7	16
23	Determination of Invariant Amplitudes from Experimental Observables. Journal of Mathematical Physics, 1969, 10, 925-928.	1.1	15
24	Negative to Positive Ratio from Nonrelativistic Theories of Pion Photoproduction. Physical Review, 1957, 105, 267-277.	2.7	14
25	Search for a Spin-1 Intermediate Meson in Neutral Pion Photoproduction. Physical Review, 1962, 125, 734-744.	2.7	14
26	Non-Dynamical Structure of Photoproduction Processes. Reviews of Modern Physics, 1967, 39, 178-202.	45.6	13
27	Unambiguously Complete Characterization of Reactions. Physical Review Letters, 1984, 52, 2305-2308.	7.8	13
28	Interfacing theory and experiment in polarization studies. Annals of Physics, 1980, 126, 176-197.	2.8	12
29	Polarization tests of one-particle-exchange mechanisms. Physical Review D, 1984, 30, 55-62.	4.7	12
30	Polarization phenomena in collinear reactions. Physical Review D, 1985, 31, 2986-2995.	4.7	12
31	The limits of science and the scientific method. Research Policy, 1988, 17, 293-299.	6.4	12
32	Angular Distribution of Positive Pion Photoproduction from Hydrogen. Physical Review, 1957, 107, 600-603.	2.7	11
33	Mirror Relations as Nondynamical Tests of Conservation Laws. Physical Review, 1968, 167, 1516-1522.	2.7	11
34	Quadratic constraints in amplitude analysis. Physical Review D, 1984, 29, 2625-2632.	4.7	11
35	Resolving the discrete ambiguities in amplitude determinations. Journal of Mathematical Physics, 1985, 26, 211-213.	1.1	11
36	Electromagnetic form factors from polarization experiments. Annals of Physics, 1990, 198, 371-405.	2.8	10

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37	Nondynamical Tests of theCPTTheorem and Related Symmetries. Physical Review, 1968, 165, 1915-1922.	2.7	9
38	Modified Analysis of Nucleon-Nucleon Scattering. IV.pâ^'pScattering between 9.68 and 98 Mev. Physical Review, 1961, 123, 1835-1839.	2.7	8
39	One-pion exchange and the optical model. Nuclear Physics (journal), 1962, 29, 582-603.	1.9	8
40	Nondynamical Structure of Particle Reactions Containing Identical Particles. Physical Review D, 1970, 1, 1821-1834.	4.7	8
41	Nondynamical Structure of Collinear Processes. Physical Review D, 1972, 5, 836-845.	4.7	8
42	The nondynamical structure of reactions involving four spin-12 particles. Annals of Physics, 1974, 84, 535-558.	2.8	8
43	The crisis in particle physics. Research Policy, 1977, 6, 78-107.	6.4	8
44	Amplitudes of the two-nucleon interaction at 579 MeV. Physical Review D, 1985, 32, 74-81.	4.7	8
45	Amplitude description of elasticppscattering at 800 MeV. Physical Review D, 1985, 31, 1577-1580.	4.7	8
46	Polarization measurements in p-d elastic scattering: The structure of <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	2.8	8
47	Photons in the transversity system. Annals of Physics, 1989, 195, 213-219.	2.8	8
48	Optimal coordinate representations for particle reactions. Nuclear Physics A, 1971, 160, 569-576.	1.5	7
49	Vector Polarization in Reactions with Spin-1 Particles. Physical Review Letters, 1984, 53, 1885-1887.	7.8	7
50	Amplitude test of a Regge-pole model. Physical Review D, 1984, 30, 1899-1903.	4.7	7
51	The polarization structure of p + p â†' d + Ïє and of spinwise similar reactions. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1985, 240, 43-62.	1.6	7
52	Interpretingp-ppolarization at high energies. Physical Review D, 1985, 32, 303-305.	4.7	7
53	Striking pattern of a strong-interaction reaction. Physical Review D, 1985, 31, 2360-2362.	4.7	7
54	Amplitude systems for spin-1/2 particles. Journal De Physique, 1989, 50, 1167-1194.	1.8	7

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55	Testing particle exchange in p-p scattering. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1985, 152, 265-270.	4.1	6
56	Spin analysis of 0+1â†'0+1 and its application to Ï€+dâ†'Ï€+d data. Physical Review D, 1985, 32, 2322-2333.	4.7	6
57	An introduction to x-coefficients and a tabulation of their values*. Atomic Data and Nuclear Data Tables, 1971, 9, 235-264.	2.4	5
58	Polarization formalisms and experiments. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1984, 227, 108-114.	1.6	5
59	Planar-Transverse Amplitude-Phase Pattern in Nonelastic Reactions. Physical Review Letters, 1989, 62, 517-519.	7.8	5
60	A noâ€go theorem for polarization structure. Journal of Mathematical Physics, 1978, 19, 1371-1375.	1.1	4
61	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.	4.1	4
62	Completing information on a high-energy strong-interaction reaction. Physical Review D, 1985, 31, 195-197.	4.7	3
63	Use of polarization in pion-nucleon bremsstrahlung. Physical Review C, 1986, 34, 1411-1418.	2.9	3
64	INCLUSIVE REACTIONS WITH THREE POLARIZED PARTICLES. International Journal of Modern Physics A, 1988, 03, 1847-1858.	1.5	3
65	On Brain Drain in the Philippines. Bulletin of the Atomic Scientists, 1971, 27, 36-36.	0.6	2
66	The dynamics of scientific manpower and output. Research Policy, 1979, 8, 26-45.	6.4	2
67	Symmetry laws and the limits to the power of polarization experiments. Physical Review D, 1983, 27, 289-291.	4.7	2
68	Testing the spin dependence of QCD-based models. Zeitschrift FÃ¼r Physik C-Particles and Fields, 1985, 28, 607-612.	1.5	2
69	Should we expect large polarization effects at high energies?. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1985, 157, 235-238.	4.1	2
70	Spin structure of (1/2)+1â†'(1/2)+0; the reaction p+dâ†'t+Ï€ and its relatives. Physical Review C, 1986, 33, 1098-1100.	2.9	2
71	Complete formalism for charge-symmetry tests inn-pelastic scattering. Physical Review D, 1989, 39, 1297-1303.	4.7	2
72	Parity constraints on the polarization structure of reactions. Annals of Physics, 1989, 193, 80-92.	2.8	2

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73	General transformation matrix for Dirac spinors and the calculation of spinorial amplitudes. Journal of Mathematical Physics, 1984, 25, 820-827.	1.1	1
74	Sufficiency of double correlations in polarization analyses. Physical Review D, 1987, 36, 2165-2168.	4.7	1
75	Constraints of time reversal invariance in the polarization structure of reactions. Annals of Physics, 1989, 195, 167-189.	2.8	1
76	Two views of scienceâ€”as a student and â€™â€™vingt ans apresâ€™â€™. Physics Teacher, 1977, 15, 32-36.	0.3	0
77	Polarization phenomenology in the optimal representation. AIP Conference Proceedings, 1982, , .	0.4	0
78	Intermediate energy phenomena, I.. AIP Conference Proceedings, 1989, , .	0.4	0
79	Amplitude-phase patterns: A new look at strong interactions. Nuclear Physics A, 1994, 578, 441-470.	1.5	0
80	The Role of Polarization in Microscopic Physics. , 1979, , 503-513.		0