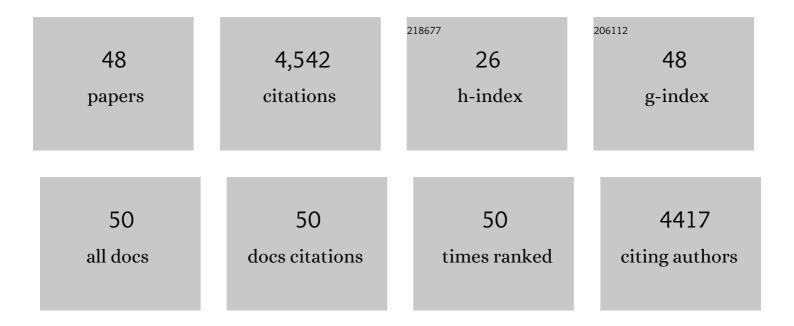
Wolfgang Speier

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Electrically controlled transformation of memristive titanates into mesoporous titanium oxides via incongruent sublimation. Scientific Reports, 2018, 8, 3774.	3.3	12
2	Local surface conductivity of transition metal oxides mapped with true atomic resolution. Nanoscale, 2018, 10, 11498-11505.	5.6	21
3	Influence of Dislocations in Transition Metal Oxides on Selected Physical and Chemical Properties. Crystals, 2018, 8, 241.	2.2	54
4	Stability and Decomposition of Perovskite-Type Titanates upon High-Temperature Reduction. Physica Status Solidi - Rapid Research Letters, 2017, 11, 1700222.	2.4	14
5	Resistive Switching of a Quasiâ€Homogeneous Distribution of Filaments Generated at Heatâ€Treated TiO ₂ (110)â€Surfaces. Advanced Functional Materials, 2015, 25, 6382-6389.	14.9	22
6	Nature of the Resistive Switching Phenomena in TiO2 and SrTiO3. Solid State Physics, 2014, , 353-559.	0.5	58
7	Cluster-like resistive switching of SrTiO3:Nb surface layers. New Journal of Physics, 2013, 15, 103017.	2.9	43
8	Inhomogeneity of donor doping in SrTiO3 substrates studied by fluorescence-lifetime imaging microscopy. Applied Physics Letters, 2013, 103, .	3.3	17
9	TiO ₂ —a prototypical memristive material. Nanotechnology, 2011, 22, 254001.	2.6	268
10	Nanoscale resistive switching in SrTiO3 thin films. Physica Status Solidi - Rapid Research Letters, 2007, 1, R86-R88.	2.4	151
11	Switching the electrical resistance of individual dislocations in single-crystalline SrTiO3. Nature Materials, 2006, 5, 312-320.	27.5	1,581
12	Localized Metallic Conductivity and Self-Healing during Thermal Reduction ofSrTiO3. Physical Review Letters, 2002, 88, 075508.	7.8	269
13	Segregation phenomena in thin films of BaTiO3. Integrated Ferroelectrics, 2001, 33, 303-310.	0.7	5
14	Cation Loss of BaCa0.393Nb0.606O2.91 in Aqueous Media: Amorphization at Room Temperature. Journal of Solid State Chemistry, 2000, 149, 262-275.	2.9	13
15	Chemical inhomogeneity in the near-surface region of KTaO3evolving at elevated temperatures. Journal of Physics Condensed Matter, 2000, 12, 4687-4697.	1.8	21
16	Formation of micro-crystals on the (100) surface of SrTiO3 at elevated temperatures. Surface Science, 2000, 460, 112-128.	1.9	123
17	Surfaces of reduced and oxidizedSrTiO3from atomic force microscopy. Physical Review B, 1999, 60, 5909-5926.	3.2	237
18	Restructuring of the surface region in SrTiO 3. Applied Physics A: Materials Science and Processing, 1996, 64, 55-59.	2.3	78

WOLFGANG SPEIER

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19	Surface layer on KNbO 3 and the hysteresis loop anomaly. Journal of Physics and Chemistry of Solids, 1996, 57, 1765-1775.	4.0	21
20	Quantitative analysis of oxide films on ODS-alloys using MCs+-SIMS and e-beam SNMS. Fresenius' Journal of Analytical Chemistry, 1993, 346, 186-191.	1.5	39
21	Analysis and modelling of transport processes in alumina scales on high temperature alloys. Fresenius' Journal of Analytical Chemistry, 1993, 346, 318-322.	1.5	33
22	Surface chemistry and molecular reactions on KNbO3 single crystal surfaces. Surface Science, 1993, 280, 179-184.	1.9	26
23	Microscopic nature of the metal to insulator phase transition induced through electroreduction in singleâ€crystal KNbO3. Applied Physics Letters, 1992, 60, 1190-1192.	3.3	43
24	Formation of CoSi2 in SIMOX wafers by high dose cobalt implantation. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1992, 12, 129-133.	3.5	2
25	Analysis of composition and growth mechanisms of oxide scales on high temperature alloys by SNMS, SIMS, and RBS. Mikrochimica Acta, 1992, 107, 197-206.	5.0	31
26	Composition and growth mechanisms of alumina scales on FeCrAl-based alloys determined by SNMS. Applied Surface Science, 1991, 52, 271-287.	6.1	159
27	Local perturbation and induced magnetization originating from 3dimpurities in Pd. Physical Review B, 1991, 43, 9558-9568.	3.2	26
28	Parametrization of the electronic structure ofZ+1 impurities. Physical Review B, 1991, 43, 13916-13925.	3.2	20
29	Comment on â€~â€~X-ray-photoelectron diffraction from a free-electron-metal valence band: Evidence for hole-state localization''. Physical Review Letters, 1991, 66, 2834-2834.	7.8	9
30	Electronic structure and bonding properties in TiSi2. European Physical Journal B, 1990, 78, 423-430.	1.5	35
31	X-ray emission and absorption studies of silicides in relation to their electronic structure. Physica Scripta, 1990, 41, 629-633.	2.5	25
32	Electronic structure of Z+1 impurities in metals. Physical Review B, 1990, 41, 2753-2757.	3.2	27
33	Core-hole effects in the x-ray-absorption spectra of transition-metal silicides. Physical Review B, 1990, 41, 11899-11910.	3.2	81
34	Photoemission and inverse photoemission of transition-metal silicides. Physical Review B, 1989, 39, 6008-6016.	3.2	93
35	The electronic structure of NiAl and NiSi. Journal of Physics Condensed Matter, 1989, 1, 9131-9139.	1.8	23
36	The electronic structure of 4d and 5d silicides. Journal of Physics Condensed Matter, 1989, 1, 9117-9129.	1.8	28

WOLFGANG SPEIER

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37	Core hole effects on electronic structure: Al in AlNi. Journal of Physics Condensed Matter, 1989, 1, 5981-5987.	1.8	16
38	Electronic structure of CaSi and CaSi2. European Physical Journal B, 1988, 71, 69-74.	1.5	21
39	The energy dependence of the Bremsstrahlung transition in solid materials. Journal of Physics C: Solid State Physics, 1988, 21, L1183-L1189.	1.5	10
40	Matrix elements in inverse X-ray photo-emission (bremsstrahlung isochromat spectroscopy). Journal of Physics C: Solid State Physics, 1988, 21, 2621-2633.	1.5	47
41	Matrix elements in appearance potential spectroscopy of Al and its alloys. Journal of Electron Spectroscopy and Related Phenomena, 1987, 42, 27-38.	1.7	5
42	Role of electron-energy losses in bremsstrahlung isochromat spectroscopy. Physical Review B, 1986, 34, 5177-5183.	3.2	22
43	Appearance of Correlation Effects in U Intermetallics. Physical Review Letters, 1986, 57, 2215-2218.	7.8	48
44	Studies of total density of states of metals up to 70 eV aboveEF. Physical Review B, 1985, 32, 3597-3603.	3.2	87
45	L2,3absorption spectra of the lighter3dtransition metals. Physical Review B, 1985, 32, 4905-4913.	3.2	212
46	Extended X-Ray Isochromat Fine Structure of Cu. Physical Review Letters, 1985, 55, 1693-1696.	7.8	28
47	2pabsorption spectra of the3delements. Physical Review B, 1985, 32, 4899-4904.	3.2	208
48	Bremsstrahlung isochromat spectra and density-of-states calculations for the3dand4dtransition metals. Physical Review B, 1984, 30, 6921-6930.	3.2	130