Franco Marabelli

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/246649/publications.pdf

Version: 2024-02-01

147 papers

3,049 citations

30 h-index 50 g-index

148 all docs 148
docs citations

148 times ranked 3324 citing authors

#	Article	IF	Citations
1	Covalent insulatorCeO2: Optical reflectivity measurements. Physical Review B, 1987, 36, 1238-1243.	3.2	272
2	Optical gap of CuO. Physical Review B, 1995, 52, 1433-1436.	3.2	259
3	Colloidal Photonic Crystals Doped with Gold Nanoparticles: Spectroscopy and Optical Switching Properties. Advanced Functional Materials, 2007, 17, 2779-2786.	14.9	102
4	Polymer Distributed Bragg Reflectors for Vapor Sensing. ACS Photonics, 2015, 2, 537-543.	6.6	100
5	Band structure and optical properties of opal photonic crystals. Physical Review B, 2005, 72, .	3.2	98
6	Electronic structure of ScN. Physical Review B, 1986, 34, 3876-3882.	3.2	91
7	Luminescence from $\hat{l}^2\hat{a}$ 'FeSi2precipitates in Si. II: Origin and nature of the photoluminescence. Physical Review B, 2002, 66, .	3.2	90
8	Theory and experiment on the optical properties of CrSi2. Physical Review B, 1992, 46, 9380-9389.	3.2	72
9	Optical constants of highly stretch-oriented poly(p-phenylene-vinylene): A joint experimental and theoretical study. Physical Review B, 2000, 62, 10173-10184.	3.2	63
10	Plutonium chalcogenides: Intermediate valence and electronic structure. Physical Review B, 1991, 43, 11136-11144.	3.2	59
11	P-type macroporous silicon for two-dimensional photonic crystals. Journal of Applied Physics, 2002, 92, 6966-6972.	2.5	57
12	Structure and physical properties of type-I clathrate solid-solutionBa8PtxGe46â^'xâ^'yâ—»y(â—»=vacancy). Physical Review B, 2007, 76, .	3.2	51
13	Ternary clathrates Ba–Zn–Ge: phase equilibria, crystal chemistry and physical properties. Journal of Physics Condensed Matter, 2007, 19, 216223.	1.8	50
14	Electronic structure and optical spectra ofLuInCu4andYbMCu4â€,(M=Cu,Ag, Au, Pd, and In). Physical Review B, 2000, 62, 1742-1752.	3.2	47
15	Electronic structure of UPt3 in the vicinity of the fermi energy. Solid State Communications, 1986, 59, 381-384.	1.9	46
16	Demonstration of fluorescence enhancement via Bloch surface waves in all-polymer multilayer structures. Physical Chemistry Chemical Physics, 2016, 18, 14086-14093.	2.8	46
17	Multiplexed label-free optical biosensor for medical diagnostics. Journal of Biomedical Optics, 2014, 19, 017006. Superconductivity in the complex metallic alloy <mml:math< td=""><td>2.6</td><td>45</td></mml:math<>	2.6	45
18	xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> <mml:mrow><mml:mi>²</mml:mi><mml:mtext>â^²</mml:mtext><mml:msub><mml:mi mathvariant="normal">Al</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">Mg</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow> . Physical Review B, 2007, 76, .	3.2	44

#	Article	IF	CITATIONS
19	A Localized Surface Plasmon Resonance-Based Portable Instrument for Quick On-Site Biomolecular Detection. IEEE Transactions on Instrumentation and Measurement, 2016, 65, 317-327.	4.7	42
20	Measurement and simulation of anisotropy in the infrared and Raman spectra of \hat{l} -FeSi2single crystals. Physical Review B, 1997, 55, 14290-14297.	3.2	41
21	Light Localization Effect on the Optical Properties of Opals Doped with Gold Nanoparticles. Journal of Physical Chemistry C, 2008, 112, 6293-6298.	3.1	40
22	Spectroscopy of photonic bands in macroporous silicon photonic crystals. Physical Review B, 2002, 65, .	3.2	39
23	Direct measurement of refractive-index dispersion of transparent media by white-light interferometry. Applied Optics, 2003, 42, 3910.	2.1	39
24	Non-Fermi-liquid behavior of YbCu5â^'x Alx. Physical Review B, 1999, 60, 1238-1246.	3.2	35
25	Photonic bands and group-velocity dispersion inSi/SiO2photonic crystals from white-light interferometry. Physical Review B, 2004, 69, .	3.2	35
26	Ellipsometric investigation of C60 single crystal. Solid State Communications, 1994, 90, 639-642.	1.9	34
27	Electronic and optical properties of isostructurall²â°'FeSi2andOsSi2. Physical Review B, 2001, 64, .	3.2	34
28	Anisotropic photoluminescence properties of oriented poly(p-phenylene-vinylene) films: Effects of dispersion of optical constants. Physical Review B, 2007, 75, .	3.2	34
29	Elastic and vibrational properties of pseudomorphic FeSi films. Physical Review B, 1994, 50, 3570-3576.	3.2	30
30	Spectroscopic Investigation of Artificial Opals Infiltrated with a Heteroaromatic Quadrupolar Dye. Journal of Physical Chemistry C, 2010, 114, 2403-2413.	3.1	30
31	Fluorescence excitation enhancement by Bloch surface wave in all-polymer one-dimensional photonic structure. Applied Physics Letters, 2014, 105, .	3.3	30
32	Hybrid ZnO:polystyrene nanocomposite for allâ€polymer photonic crystals. Physica Status Solidi C: Current Topics in Solid State Physics, 2015, 12, 158-162.	0.8	30
33	Nanostructured Organic/Hybrid Materials and Components in Miniaturized Optical and Chemical Sensors. Nanomaterials, 2020, 10, 480.	4.1	29
34	Temperature dependence of the optical conductivity of the heavy-fermion systemCeCu6. Physical Review B, 1990, 42, 3307-3311.	3.2	28
35	Plasmonic resonances in nanostructured gold/polymer surfaces by colloidal lithography. Physica Status Solidi (A) Applications and Materials Science, 2010, 207, 935-942.	1.8	28
36	Photonic bands in patterned silicon-on-insulator waveguides. IEEE Journal of Quantum Electronics, 2002, 38, 885-890.	1.9	27

#	Article	lF	CITATIONS
37	Magnetic structures and bulk magnetic properties of YbCu4M, Mî—»Au, Pd. Physica B: Condensed Matter, 1997, 234-236, 676-678.	2.7	26
38	Growth and optical studies of opal films as three-dimensional photonic crystals. Materials Science and Engineering C, 2003, 23, 61-65.	7.3	25
39	Wide-band transmission of nondistorted slow waves in one-dimensional optical superlattices. Applied Physics Letters, 2006, 88, 241103.	3.3	25
40	Correlation between structural and optical properties of ion beam synthesized \hat{l}^2 -FeSi2 precipitates in Si. Journal of Luminescence, 1998, 80, 467-471.	3.1	24
41	Fabrication and optical measurements of silicon on insulator photonic nanostructures. Microelectronic Engineering, 2002, 61-62, 529-536.	2.4	24
42	Interaction among plasmonic resonances in a gold film embedding a two-dimensional array of polymeric nanopillars. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 1641.	2.1	24
43	Raman Spectra of Poly(<i>p</i> pphenylenevinylene)s with Fluorinated Vinylene Units: Evidence of Interâ€ring Distortion. ChemPhysChem, 2009, 10, 1284-1290.	2.1	23
44	Infra-red properties of bulk heavily doped silicon. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1985, 5, 292-303.	0.4	22
45	Electronic structure of UPt3: A low energy optical study. Journal of Magnetism and Magnetic Materials, 1986, 62, 287-292.	2.3	21
46	Optical properties ofWSi2. Physical Review B, 1991, 44, 8437-8445.	3.2	21
47	Electronic structure and physical properties of NbSi2. Physical Review B, 1996, 53, 15631-15637.	3.2	19
48	Highly oriented poly(paraphenylene vinylene): Polarized optical spectroscopy under pressure. Physical Review B, 2009, 79, .	3.2	19
49	Electronic structure and magnetic properties of heavy fermions. Journal of Magnetism and Magnetic Materials, 1987, 70, 364-368.	2.3	18
50	Optical properties ofPd2Si. Physical Review B, 1992, 45, 13285-13292.	3.2	18
51	Amplified spontaneous emission from opal photonic crystals engineered with structural defects. Physical Chemistry Chemical Physics, 2009, 11, 11515.	2.8	18
52	Evolution of a metallic and magnetic state in (Fe,Mn)Si and Fe(Si,Ge). Journal of Magnetism and Magnetic Materials, 1998, 177-181, 1401-1402.	2.3	17
53	Optical functions of epitaxial β-FeSi2 on Si(001) and Si(111). Solid State Communications, 1995, 96, 751-756.	1.9	16
54	Optical properties of highly oriented poly(p-phenylene-vinylene). Synthetic Metals, 2001, 124, 53-58.	3.9	15

#	Article	IF	Citations
55	Electronic structure of CeCu6and LaCu6. Physical Review B, 1989, 39, 1407-1410.	3.2	14
56	Evidence of localized states in the optical gap of CuO. Physica B: Condensed Matter, 1994, 199-200, 255-256.	2.7	14
57	Study of CoSi2 formation from a Co–Ni alloy. Microelectronic Engineering, 2002, 60, 221-230.	2.4	14
58	Optical properties and photonic mode dispersion in two-dimensional and waveguide-embedded photonic crystals. Synthetic Metals, 2003, 139, 695-700.	3.9	14
59	Optical Sensitivity Gain in Silica-Coated Plasmonic Nanostructures. Journal of Physical Chemistry Letters, 2014, 5, 2935-2940.	4.6	14
60	Anisotropic magnetization and field-induced effects on CuO high quality monocrystals. Solid State Communications, 1993, 86, 131-135.	1.9	13
61	Interferometric determination of the anisotropic refractive index dispersion of poly-(p-phenylene-vinylene). Applied Physics Letters, 2005, 86, 201119.	3.3	13
62	Field Enhancement by Shaping Nanocavities in a Gold Film. Plasmonics, 2013, 8, 975-981.	3.4	13
63	Organic Lightâ€Emitting Transistors in a Smartâ€Integrated System for Plasmonicâ€Based Sensing. Advanced Functional Materials, 2021, 31, 2104927.	14.9	13
64	Evolution of ground state properties of YbCu5â^'xAux. Physica B: Condensed Matter, 2002, 312-313, 489-491.	2.7	12
65	Experimental assessment of nonergodicity in tetracene single crystals. Physical Review B, 2012, 86, .	3.2	12
66	On electronic structure and pressure response of FeSilâ^'xGex. Physica B: Condensed Matter, 1999, 259-261, 866-867.	2.7	11
67	Role of the substrate in the C49–C54 transformation of TiSi[sub 2]. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2000, 18, 721.	1.6	11
68	Strong Modulations of Optical Reflectance in Tapered Core–Shell Nanowires. Materials, 2019, 12, 3572.	2.9	11
69	Optical constants and electrical transport parameters of HfSi2. Journal of Applied Physics, 1991, 69, 7645-7650.	2.5	10
70	Theoretical interpretation of optical conductivity of YbCu4Ag,Au. Journal of Applied Physics, 1996, 79, 6423.	2.5	10
71	Optical response of Cu3Ge thin films. Journal of Applied Physics, 1996, 79, 8115-8117.	2.5	10
72	Far infrared optical study of the heavy fermion CeCu6. Solid State Communications, 1988, 67, 931-934.	1.9	9

#	Article	IF	CITATIONS
73	Optical study of U2PTC2: Evidence of heavy fermion behavior. Solid State Communications, 1990, 74, 1075-1078.	1.9	9
74	Optical and electronic properties of 5th-column transition metal disilicides. Applied Surface Science, 1991, 53, 230-236.	6.1	9
75	Optical study of the temperatureâ€induced valence transition in YbCu4In. Journal of Applied Physics, 1993, 73, 5418-5420.	2.5	9
76	Optical properties of fullerite thin films in the 0.4 to 32 eV energy range. Physica Status Solidi (B): Basic Research, 1994, 183, 267-275.	1.5	9
77	Experimental identification of the optical phonon of CoSi2 in the infrared. Applied Surface Science, 1995, 91, 30-33.	6.1	9
78	Stoichiometric effects on the optical spectra and pressure response of Fe1â^'xMnxSi. Physica B: Condensed Matter, 1997, 230-232, 794-796.	2.7	9
79	Onset of magnetism and Fermi-liquid instabilities in Yb compounds. Physica B: Condensed Matter, 2000, 281-282, 319-325.	2.7	9
80	Far-infrared optical properties of CrCl3 and CrBr3. Solid State Communications, 1984, 52, 463-465.	1.9	7
81	Heavy fermion behavior in far infrared optical spectroscopy. Physica B: Condensed Matter, 1990, 163, 224-226.	2.7	7
82	Optical response of the Kondo lattices YbCu4Ag, YbCu4Au and YbCu4Pd. Physica B: Condensed Matter, 1995, 206-207, 355-357.	2.7	7
83	Kinetics of the C49–C54 phase transition in TiSi2: New indications from sheet resistance, infrared spectroscopy and molecular dynamics simulations. Microelectronic Engineering, 1997, 37-38, 441-448.	2.4	7
84	Triplet excitons in acyl- and alkyl-substituted polycarbazolyldiacetylenes: A spectroscopical and photophysical study. Physical Review B, 2004, 69, .	3.2	7
85	Effects of the deposition parameters on the growth of ultrathin and thin SiO2 films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2007, 25, 485-491.	2.1	7
86	A Combined Ion Implantation/Nanosecond Laser Irradiation Approach towards Si Nanostructures Doping. Journal of Nanotechnology, 2012, 2012, 1-6.	3.4	7
87	Electronic structure and Yb-valence in the Kondo lattices YbCu4M (M = Ag, Au, Pd, In). Physica Scripta, 1996, T66, 177-182.	2.5	7
88	Optical spectroscopy of the covalent insulatorCeF4. Physical Review B, 1992, 46, 10012-10016.	3.2	6
89	The physics of heavy fermions with a hybridization gap. Physica Scripta, 1992, T45, 120-124.	2.5	6
90	Optical characteristic of epitaxial pseudomorphic FeSi2. Solid State Communications, 1993, 86, 217-219.	1.9	6

#	Article	IF	Citations
91	Morphology and optical properties of bare and polydiacetylenes-infiltrated opals. Synthetic Metals, 2003, 139, 633-636.	3.9	6
92	GeO2-doped SiO2 sputtered thin films: Microstructure, stoichiometry, and optical properties. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2004, 22, 2234-2238.	2.1	6
93	Polarized optical and photoluminescence properties of highly oriented poly(p-phenylene-vinylene). Synthetic Metals, 2005, 153, 281-284.	3.9	6
94	Polarized pressure dependence of the anisotropic dielectric functions of highly oriented poly(p-phenylene vinylene). Journal of Applied Physics, 2010, 107, 073106.	2.5	6
95	Electronic structure of UPt 3 : A low energy optical study. Journal of Magnetism and Magnetic Materials, 1987, 63-64, 377-379.	2.3	5
96	Optical study of heavy-fermion behavior in U(Pt1â^'x, 3dx)3. Journal of Magnetism and Magnetic Materials, 1992, 108, 79-81.	2.3	5
97	Experimental and theoretical studies of the anisotropical complex dielectric constant of highly stretch-oriented poly(p-phenylene-vinylene). Synthetic Metals, 2001, 116, 107-110.	3.9	5
98	Photo-induced absorption spectra of a poly(p-phenylenevinylene) polymer with fluorinated double bonds. Organic Electronics, 2017, 43, 214-221.	2.6	5
99	The electronic structure of YbCu4ln as observed through optical measurements. Physica B: Condensed Matter, 1997, 230-232, 304-306.	2.7	4
100	Texturing, surface energetics and morphology in the C49–C54 transformation of TiSi2. Solid-State Electronics, 1999, 43, 1069-1074.	1.4	4
101	The anisotropical optical spectra of highly stretch-oriented poly(p-phenylene-vinylene). Synthetic Metals, 2001, 119, 643-644.	3.9	4
102	Photoinduced absorption spectra in polydiacetylenes for non linear optical applications. Synthetic Metals, 2003, 138, 75-78.	3.9	4
103	Morphology, band structure, and optical properties of artificial opals. , 2004, 5511, 135.		4
104	Optical effects in artificial opals infiltrated with gold nanoparticles. , 2006, , .		4
105	Porous Silicon Bragg Reflector and 2D Gold-Polymer Nanograting: A Route Towards a Hybrid Optoplasmonic Platform. Nanomaterials, 2019, 9, 1017.	4.1	4
106	Plasma Fabrication and SERS Functionality of Gold Crowned Silicon Submicrometer Pillars. Materials, 2020, 13, 1244.	2.9	4
107	Narrow bands and magnetic properties of heavy fermions. Journal of Magnetism and Magnetic Materials, 1988, 73, 229-232.	2.3	3
108	Optical study of niobium disilicide polycrystalline films. Physical Review B, 1991, 44, 3757-3761.	3.2	3

#	Article	IF	Citations
109	Anisotropic Optical Response in \hat{l}^2 -FeSi $<$ sub $>$ 2 $<$ /sub $>$ Single Crystals and Thin Films. Materials Research Society Symposia Proceedings, 1995, 402, 349.	0.1	3
110	Kinetics of the C49-C54 transformation in patterned and blanket TiSi ₂ films: a comparison Materials Research Society Symposia Proceedings, 1998, 514, 219.	0.1	3
111	Synergic combination of the sol–gel method with dip coating for plasmonic devices. Beilstein Journal of Nanotechnology, 2015, 6, 500-507.	2.8	3
112	Far-Infrared Properties of Intermediate Valence- and Heavy Fermion Materials., 1987,, 269-278.		3
113	Ellipsometry with fourier transform spectrometer: An application to TaSi2 films. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1991, 13, 169-176.	0.4	2
114	Optical and electrical characterization of VSi2 and NbSi2 single crystals. Applied Surface Science, 1993, 73, 237-242.	6.1	2
115	Heavy-fermion behavior in the optical functions of CeCu5. Physica B: Condensed Matter, 1994, 199-200, 34-35.	2.7	2
116	Evolution of carrier density in the seriesYCu5â°xInx. Physical Review B, 1996, 53, 9517-9520.	3.2	2
117	Electronic structure and magnetic properties of URhSi. Journal of Applied Physics, 1998, 83, 6438-6440.	2.5	2
118	Polarized photoluminescence of highly oriented poly(p-phenylene-vinylene)., 2004,,.		2
119	Emission properties of artificial opals infiltrated with a heteroaromatic quadrupolar dye. , 2008, , .		2
120	Thickness controlled sol-gel silica films for plasmonic bio-sensing devices. , 2014, , .		2
121	Thermal evolution of tetramethylammonium tetrafluoborate and perchlorate investigated through dielectric and IR spectroscopy. Materials Chemistry and Physics, 2014, 147, 120-126.	4.0	2
122	Plasmonic Structures for Sensing and Emitting Devices. Journal of Physics: Conference Series, 2014, 566, 012015.	0.4	2
123	Evidence of double-loop hysteresis in disordered ferroelectric crystal. Journal of Applied Physics, 2020, 127, 184107.	2.5	2
124	Angular dependence and absorption properties of the anapole mode of Si nano-disks. Journal of Applied Physics, 2021, 129, .	2.5	2
125	Some specific examples of thermoreflectance investigation. , 1990, 1286, 154.		1
126	The resistivity behavior of heavy fermions obtained from a phenomenological two band model. Physica B: Condensed Matter, 1990, 163, 550-552.	2.7	1

#	Article	IF	CITATIONS
127	The photophysics of triplet excitons in substituted polycarbazolyldiacetylenes. Synthetic Metals, 2003, 139, 889-892.	3.9	1
128	Lab on Chip: Portable Optical Device for On-site Multi-parametric Analysis. , 2013, , .		1
129	Far infrared reflectivity of narrow band materials. Mikrochimica Acta, 1988, 95, 345-347.	5.0	0
130	Narrow bands and magnetic properties of heavy fermions (abstract). Journal of Applied Physics, 1988, 63, 3422-3422.	2.5	0
131	Micro-Ftir and Theoretical Study of C60 Single-Crystal Vibrational Modes. Materials Research Society Symposia Proceedings, 1994, 359, 469.	0.1	0
132	Disorder and Strain Effects in the Optical Response of Thin CoSi Epitaxial Films on Si(111). Materials Research Society Symposia Proceedings, 1995, 402, 631.	0.1	0
133	Kinetics of the C49-C54 phase transition in TiSi ₂ : new indications from sheet resistance, infrared spectroscopy and molecular dynamics simulations., 1997,,.		0
134	Structure, Morphology and Kinetics of the C49 to C54 Phase Transformation In Tisi2 Thin Films. Materials Research Society Symposia Proceedings, 1997, 481, 593.	0.1	0
135	Properties of Ion Beam Synthesized Iron Disilicide Dots. Materials Research Society Symposia Proceedings, 1999, 571, 287.	0.1	0
136	Optical properties and photonic bands of Si-based photonic crystals. , 0, , .		0
137	Optical Properties of Polystyrene Opals Infiltrated with Cyanine Dyes in the form of J-Aggregates. Materials Research Society Symposia Proceedings, 2004, 846, DD12.11.1.	0.1	0
138	Spectroscopical and photophysical investigations on polydiacetylenes with different ordering of the A g and B u excited states. , 2004, , .		0
139	Evolution of optical response in the series. Physica B: Condensed Matter, 2006, 378-380, 740-741.	2.7	0
140	Back Cover (Phys. Status Solidi A 4/2010). Physica Status Solidi (A) Applications and Materials Science, 2010, 207, .	1.8	0
141	Plasmonic Structures for Near Infrared Applications. Materials Research Society Symposia Proceedings, 2014, 1629, 1.	0.1	0
142	A multiplexed label free plasmonic nano-device for near infrared applications. , 2015, , .		0
143	Nanoplasmonic platform for multiparametric and highthroughput biosensing. , 2016, , .		0
144	Simultaneous detection of multiple biomarkers by means of SERS on polymer nanopillar gold arrays. , 2016, , .		0

#	Article	IF	CITATIONS
145	OPTICAL PROPERTIES OF SILICIDES: THEORY AND EXPERIMENTS. , 2000, , .		O
146	ELECTRONIC STRUCTURE OF UPt3: A LOW ENERGY OPTICAL STUDY. , 1987, , 377-379.		0
147	Plasmonic Sensors on 2D Ordered Structures. , 2015, , 359-373.		O