

Yves Borensztein

List of Publications by Year in descending order

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115
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44
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116
all docs

116
docs citations

116
times ranked

2147
citing authors

#	ARTICLE	IF	CITATIONS
1	Real-Time Monitoring of Growing Nanoparticles. <i>Science</i> , 2003, 300, 1416-1419.	12.6	347
2	Large anisotropy in the optical reflectance of Ag(110) single crystals: Experiment and theory. <i>Physical Review Letters</i> , 1993, 71, 2334-2337.	7.8	81
3	Theoretical and Experimental Optical Spectroscopy Study of Hydrogen Adsorption at Si(111)-(7Å-7). <i>Physical Review Letters</i> , 1996, 76, 4923-4926.	7.8	71
4	Reflectance-anisotropy spectroscopy and surface differential reflectance spectra at the Si(100) surface: Combined experimental and theoretical study. <i>Physical Review B</i> , 2009, 79, .	3.2	53
5	X-ray radiolysis induced formation of silver nano-particles: A SAXS and UV-visible absorption spectroscopy study. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2007, 263, 436-440.	1.4	52
6	Monitoring the Transitions of the Charge-Induced Reconstruction of Au(110) by Reflectance Anisotropy Spectroscopy. <i>Physical Review Letters</i> , 2002, 88, 147403.	7.8	51
7	Substrate Effect on the Plasmon Resonance of Supported Flat Silver Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2011, 115, 2914-2922.	3.1	47
8	Roughening of Ag surfaces by Ag deposits studied by differential reflectivity. <i>Physical Review B</i> , 1984, 30, 659-671.	3.2	46
9	Adhesion of growing nanoparticles at a glance: Surface differential reflectivity spectroscopy and grazing incidence small angle x-ray scattering. <i>Physical Review B</i> , 2009, 79, .	3.2	46
10	Blue shift of the dipolar plasma resonance in small silver particles on an alumina surface. <i>Physical Review B</i> , 1986, 33, 2828-2830.	3.2	44
11	Growth of Si ultrathin films on silver surfaces: Evidence of an Ag(110) reconstruction induced by Si. <i>Physical Review B</i> , 2013, 88, .	3.2	44
12	Monitoring Si growth on Ag(111) with scanning tunneling microscopy reveals that silicene structure involves silver atoms. <i>Applied Physics Letters</i> , 2014, 105, .	3.3	44
13	Probing the Si-Si Dimer Breaking of Si(100)2Å-1 Surfaces upon Molecule Adsorption by Optical Spectroscopy. <i>Physical Review Letters</i> , 2005, 95, 117402.	7.8	42
14	Monitoring of the Plasmon Resonance of Gold Nanoparticles in Au/TiO ₂ Catalyst under Oxidative and Reducing Atmospheres. <i>Journal of Physical Chemistry C</i> , 2010, 114, 9008-9021.	3.1	42
15	RAS: An efficient probe to characterize Si(001)-(2Å-1) surfaces. <i>Surface Science</i> , 2006, 600, 5142-5149.	1.9	41
16	The electronic structure of Cs adsorbed on Mo(111). <i>Solid State Communications</i> , 1982, 44, 1375-1378.	1.9	38
17	Growth mechanism of silicene on Ag(111) by scanning tunneling microscopy measurements and <i>ab initio</i> calculations. <i>Physical Review B</i> , 2015, 92, .	3.2	38
18	Gold nanoparticle self-assembly moderated by a cholesteric liquid crystal. <i>Soft Matter</i> , 2013, 9, 9366.	2.7	37

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19	Silicene multilayers on Ag(111) display a cubic diamondlike structure and a $\sqrt{3} \times \sqrt{3}$ reconstruction induced by surfactant Ag atoms. <i>Physical Review B</i> , 2015, 92, .	3.2	36
20	Optical reflectance anisotropy of Ag and Au (110) single crystals. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1994, 207, 334-339.	2.6	35
21	Resolving the Controversial Existence of Silicene and Germanene Nanosheets Grown on Graphite. <i>ACS Nano</i> , 2018, 12, 4754-4760.	14.6	35
22	Tailoring Anisotropic Interactions between Soft Nanospheres Using Dense Arrays of Smectic Liquid Crystal Edge Dislocations. <i>ACS Nano</i> , 2015, 9, 11678-11689.	14.6	33
23	Optical properties of silicene, Si/Ag(111), and Si/Ag(110). <i>Physical Review B</i> , 2018, 97, .	3.2	33
24	Roughness induced at Si(111) surfaces by high temperature heating. <i>Applied Surface Science</i> , 1990, 41-42, 439-442.	6.1	32
25	Optical Reflectance Anisotropy Spectroscopy of the Au(110) Surface in Electrochemical Environment. <i>Physica Status Solidi A</i> , 1999, 175, 311-316.	1.7	32
26	Adsorption kinetics of H on Si(111) 7×7 by means of surface differential reflectivity. <i>Physical Review B</i> , 1997, 56, R4371-R4374.	3.2	31
27	Substrate-induced multipolar resonances in supported free-electron metal spheres. <i>Physical Review B</i> , 1999, 60, 6018-6022.	3.2	30
28	Adsorption of small hydrocarbon molecules on Si surfaces: Ethylene on Si(001). <i>Physical Review B</i> , 2008, 77, .	3.2	30
29	In situ study of a thin metal film by optical means. <i>Applied Surface Science</i> , 1999, 142, 451-454.	6.1	29
30	Electronic properties of the Cs and O co-adsorption on Mo(100) at room temperature. <i>Journal of Physics C: Solid State Physics</i> , 1984, 17, 1761-1773.	1.5	28
31	Comparative study of Ag growth on (111) Au and Cu substrates. <i>Physical Review B</i> , 1988, 37, 6235-6245.	3.2	28
32	2D and 3D silver adlayers on TiO ₂ (110) surfaces. <i>Surface Science</i> , 1997, 377-379, 958-962.	1.9	28
33	Electron Spectroscopy on Adsorption of Cs on Transition Metals. <i>Physica Scripta</i> , 1983, T4, 110-112.	2.5	27
34	Optical response of Si(111)- 7×7 . <i>Surface Science</i> , 1991, 251-252, 396-400.	1.9	27
35	Optical investigation of benzene adsorption on vicinal single-domain Si(001) $\sqrt{2} \times \sqrt{2}$ surfaces. <i>Physical Review B</i> , 2005, 72, .	3.2	27
36	Determining the atomic structure of the $\sqrt{3} \times \sqrt{3}$ reconstruction induced by surfactant Ag atoms. <i>Physical Review B</i> , 2016, 94, .	3.2	27

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37	Triethylamine on Si(001)-(2 Å ⁻¹) at 300 K: Molecular Adsorption and Site Configurations Leading to Dissociation. Journal of Physical Chemistry C, 2012, 116, 16473-16486.	3.1	26
38	Contribution of longitudinal polarization waves to the optical properties of Ag surface layers. Solid State Communications, 1979, 30, 755-760.	1.9	25
39	Large differences in the optical properties of a single layer of Si on Ag(110) compared to silicene. Physical Review B, 2014, 89, .	3.2	25
40	Silver particle sizes and shapes as determined during a deposit by in situ surface differential reflectance. Surface Science, 1998, 402-404, 433-436.	1.9	24
41	Effect of surface reconstruction on the low-temperature oxidation of InAs(100): Optical investigations. Physical Review B, 2001, 63, .	3.2	23
42	Adsorption of Phenylacetylene on Si(100)-2 Å ⁻¹ : Kinetics and Structure of the Adlayer. Journal of Physical Chemistry B, 2006, 110, 22635-22643.	2.6	23
43	Threshold and Linear Dispersion of the Plasma Resonance in Thin Ag Films. Europhysics Letters, 1995, 31, 311-316.	2.0	22
44	LINEAR OPTICAL SPECTROSCOPIES FOR SURFACE STUDIES. Surface Review and Letters, 2000, 07, 399-410.	1.1	22
45	HRTEM and STEM-HAADF characterisation of Au@TiO ₂ and Au@Al ₂ O ₃ catalysts for a better understanding of the parameters influencing their properties in CO oxidation. Physical Chemistry Chemical Physics, 2013, 15, 3473.	2.8	22
46	Optical response of clean and hydrogen-covered vicinal Si(001) 2 Å ⁻¹ surfaces. Journal of Physics Condensed Matter, 2004, 16, S4301-S4311.	1.8	21
47	Optical spectra and microscopic structure of the oxidized Si(100) surface: Combined in situ optical experiments and first principles calculations. Physical Review B, 2009, 79, .	3.2	20
48	Mechanism of hydrogen adsorption on gold nanoparticles and charge transfer probed by anisotropic surface plasmon resonance. Physical Chemistry Chemical Physics, 2017, 19, 27397-27405.	2.8	20
49	Optical evidence for longitudinal waves in very thin Ag layers. Surface Science, 1980, 101, 123-130.	1.9	19
50	Differential reflectance spectroscopies of semiconductor surfaces. Physica Status Solidi (A) Applications and Materials Science, 2005, 202, 1313-1324.	1.8	19
51	Optical evidence for interface electronic states at Ag/Si interfaces. Surface Science, 1992, 274, L509-L514.	1.9	17
52	Combined scanning tunneling microscopy and reflectance anisotropy spectroscopy study of self-organized anisotropic cobalt nanodots on a vicinal Au(111) surface. Physical Review B, 2004, 70, .	3.2	17
53	Multilayer silicene: clear evidence of Ag-terminated bulk silicon. 2D Materials, 2017, 4, 025067.	4.4	17
54	Epitaxial growth of bimetallic Au-Cu nanoparticles on TiO ₂ followed in situ by scanning tunneling microscopy and grazing-incidence x-ray diffraction. Physical Review B, 2014, 90, .	3.2	16

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55	Sudden beginning of metallic behavior at Ag/Si(100) interface: A real-time photoreflectance-spectroscopy investigation. <i>Physical Review B</i> , 1993, 48, 14737-14740.	3.2	15
56	Ultrasensitive and fast single wavelength plasmonic hydrogen sensing with anisotropic nanostructured Pd films. <i>Sensors and Actuators B: Chemical</i> , 2018, 273, 527-535.	7.8	15
57	Γ_2 phase transition in MnAs/GaAs(001) thin films: An optical spectroscopic investigation. <i>Physical Review B</i> , 2006, 74, .	3.2	14
58	Unusual Two-Stage Kinetics of Ethylene Adsorption on Si(100) Unraveled by Surface Optical Spectroscopy and Monte Carlo Simulation. <i>Physical Review Letters</i> , 2013, 111, 096103.	7.8	14
59	Effective medium description of plasmonic couplings in disordered polymer and gold nanoparticle composites. <i>Thin Solid Films</i> , 2016, 603, 452-464.	1.8	14
60	Structure and stability of silicene on Ag(111) reconstructions from grazing incidence x-ray diffraction and density functional theory. <i>Physical Review B</i> , 2019, 99, .	3.2	14
61	Optical properties of discontinuous thin films and rough surfaces of silver. , 1984, , 93-117.		13
62	Determination of the morphology of Ag deposits by photoreflectance. <i>Physical Review B</i> , 1994, 50, 1973-1975.	3.2	12
63	Investigation of molecule chemisorption on Si(001) 2×1 surfaces by surface reflectance spectroscopies. <i>Physica Status Solidi (B): Basic Research</i> , 2005, 242, 2696-2703.	1.5	12
64	Sixton rectangles in the structure of alumina ultrathin films on metals. <i>Physical Review B</i> , 2010, 81, .	3.2	12
65	Growth of germanium-silver surface alloys followed by <i>in situ</i> scanning tunneling microscopy: Absence of germanene formation. <i>Physical Review B</i> , 2020, 102, .	3.2	12
66	Abnormal optical absorption of quenched Ag films due to surface roughness. <i>Surface Science</i> , 1983, 131, L367-L372.	1.9	11
67	Surface reflectance spectroscopy: Its application to the study of very thin films. <i>Thin Solid Films</i> , 1985, 125, 129-142.	1.8	11
68	Electronic Properties of Ag Monolayers on (111) Cu. <i>Europhysics Letters</i> , 1987, 4, 723-728.	2.0	11
69	Hydrogen adsorption on Si surfaces studied by real-time surface reflectance spectroscopy. <i>Surface Science</i> , 1995, 331-333, 453-457.	1.9	11
70	Critical Au Concentration for the Stabilization of Au-Cu Nanoparticles on Rutile against Dissociation under Oxygen. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 2050-2055.	4.6	11
71	The mechanism for the stabilization and surfactant properties of epitaxial silicene. <i>Nanoscale</i> , 2018, 10, 2291-2300.	5.6	11
72	Demonstration of the Existence of Dumbbell Silicene: A Stable Two-Dimensional Allotrope of Silicon. <i>Journal of Physical Chemistry C</i> , 2021, 125, 17906-17917.	3.1	11

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73	O ₂ /K/Ge(100) 2 Å ⁻¹ and O ₂ /Cs/Ge(100) 2 Å ⁻¹ : puzzling behavior of K and Cs in the oxidation of germanium. Applied Surface Science, 1993, 68, 433-438.	6.1	10
74	The growth of Ag on Si(100)-2 Å ⁻¹ . Applied Surface Science, 1993, 65-66, 735-741.	6.1	10
75	Formation of silicene on silver: Strong interaction between Ag and Si. Physica Status Solidi (B): Basic Research, 2016, 253, 206-217.	1.5	10
76	Roughening of a smooth cold Ag surface by Ag overlayers studied by differential reflectivity. Journal De Physique (Paris), Lettres, 1983, 44, 99-104.	2.8	10
77	Investigation of nonlocal electromagnetic phenomena in thin silver films near the plasma frequency. Journal of the Optical Society of America, 1983, 73, 80.	1.2	9
78	Surface-plasmon splitting on rough quenched Ag films. Physical Review B, 1985, 31, 5507-5508.	3.2	9
79	Multipolar plasma resonances in supported alkali-metal nanoparticles. Physica B: Condensed Matter, 2000, 279, 25-28.	2.7	9
80	Optical study of Ag overlayers deposited on Si(111)-7 Å ⁻¹ as a function of temperature. Vacuum, 1990, 41, 684-686.	3.5	8
81	Structure of Germanene/Al(111): A Two-Layer Surface Alloy. Journal of Physical Chemistry C, 2021, 125, 24702-24709.	3.1	8
82	All-optical determination of initial oxidation of Si(100) and its kinetics. European Physical Journal B, 2008, 66, 427-431.	1.5	7
83	Kinetics of the plasmon optical response of Au nanoparticles/TiO ₂ catalyst under O ₂ and H ₂ followed by differential diffuse reflectance spectroscopy. European Physical Journal D, 2011, 63, 235-240.	1.3	7
84	Growth mode and self-organization of LuPc ₂ on Si(001)-2 Å ⁻¹ vicinal surfaces: An optical investigation. Physical Review B, 2012, 86, .	3.2	7
85	INVESTIGATION OF ELECTROMAGNETIC FIELDS AT A ROUGH Ag SURFACE BY DIFFERENTIAL REFLECTOMETRY OF Cu AND Al ADSORBATES. Journal De Physique Colloque, 1983, 44, C10-353-C10-356.	0.2	7
86	Resolving the structure of the striped Ge layer on Ag(111):Ag ₂ Ge surface alloy with alternate fcc and hcp domains. Physical Review B, 2021, 104, .	3.2	7
87	The growth of palladium on (111) polycrystalline silver surface. Surface Science, 1986, 177, 353-362.	1.9	6
88	Surface optical reflectance spectroscopies: Application to semiconductor and metal surfaces. Physica A: Statistical Mechanics and Its Applications, 1994, 207, 293-301.	2.6	6
89	Isotropic and anisotropic optical reflectances of clean and hydrogen-covered Si(001)2x1 surfaces. Physica Status Solidi C: Current Topics in Solid State Physics, 2003, 0, 2966-2970.	0.8	6
90	The growth of Ag monolayers on a polycrystalline (111) Al surface. Journal of Physics F: Metal Physics, 1987, 17, 1093-1104.	1.6	5

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91	Optical and electromagnetic phenomena in porous coldly-deposited Ag films. Surface Science, 1989, 211-212, 775-781.	1.9	5
92	Frequency Shifts of an Ensemble of Electric Dipole Resonances Near a Conducting Surface. Physical Review Letters, 1984, 53, 854-854.	7.8	4
93	Enhanced optical absorption by silver overcoated with rough layers of pyridine. Surface Science, 1990, 226, 131-136.	1.9	4
94	Optical spectroscopy study of hydrogenation of the Si(111)-7 Å ⁻⁷ surface. Applied Surface Science, 1996, 104-105, 158-162.	6.1	4
95	Mechanism of Benzene Monolayer Formation on Si(100)-2 Å ⁻¹ Studied by Surface Differential Reflectance Spectroscopy. Journal of Physical Chemistry C, 2014, 118, 10740-10745.	3.1	4
96	Gas-induced selective re-orientation of Au@Cu nanoparticles on TiO ₂ (110). Nanoscale, 2019, 11, 752-761.	5.6	4
97	Combined surface x-ray diffraction and density functional theory study of the germanene/Al(111)- $\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msqrt} \rangle \langle \text{mml:math} \rangle$ structure. Physical Review B, 2022, 106, .	3.2	4
98	The reflectance spectroscopy of silver surface layers on gold and aluminium substrates. Thin Solid Films, 1979, 57, 89-92.	1.8	3
99	Study of ultra-thin copper films by surface reflectance spectroscopy. Surface Science, 1985, 162, 991-995.	1.9	3
100	Abnormal Optical Absorptions in Vapour-Quenched Aluminum. Europhysics Letters, 1988, 7, 617-621.	2.0	3
101	Optical study of potassium growth on the Si(100) surface. Applied Surface Science, 1996, 104-105, 147-151.	6.1	3
102	Formation and stability of small particles of potassium studied by real-time surface differential reflectance. Surface Science, 1998, 402-404, 445-449.	1.9	3
103	Optical Investigation of the Clean and Oxidized In-Rich Surface of InAs(001). Physica Status Solidi A, 2001, 188, 1417-1421.	1.7	3
104	RAS investigation of benzene adsorption on vicinal singledomain Si(001)-(2 Å ⁻¹) surfaces. Physica Status Solidi C: Current Topics in Solid State Physics, 2005, 2, 4053-4057.	0.8	3
105	Transition from silicene monolayer to thin Si films on Ag(111): comparison between experimental data and Monte Carlo simulation. Beilstein Journal of Nanotechnology, 2018, 9, 48-56.	2.8	3
106	Optical anisotropies of Ag single crystals. Thin Solid Films, 1993, 233, 24-27.	1.8	2
107	Real-Time Investigation of Potassium Growth by Surface Differential Reflectance Spectroscopy. Physica Status Solidi A, 1998, 170, 221-226.	1.7	2
108	Comparative Study of the Adsorption of Oxygen and Hydrogen on Si(111)7 Å ⁻⁷ by Surface Differential Reflectance Spectroscopy. Physica Status Solidi A, 1999, 175, 39-44.	1.7	2

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109	Temperature Dependent Optical Response of Si(100): Theory vs. Experiment. Materials Research Society Symposia Proceedings, 2011, 1370, 125.	0.1	2
110	Abnormal optical absorption of quenched Ag films due to surface roughness. Surface Science Letters, 1983, 131, L367-L372.	0.1	1
111	Anomalous optical absorption in porous metal films. Physica A: Statistical Mechanics and Its Applications, 1989, 157, 371-376.	2.6	1
112	(Invited) Si Ultrathin Films on Silver Surfaces: An Intriguing Epitaxial System. ECS Transactions, 2014, 64, 89-97.	0.5	1
113	Trapping of gold nanoparticles within arrays of topological defects: evolution of the LSPR anisotropy. Rendiconti Lincei, 2015, 26, 183-191.	2.2	1
114	Dichroic Plasmonic Films Based on Anisotropic Au Nanoparticles for Enhanced Sensitivity and Figure of Merit Sensing. Journal of Physical Chemistry C, 2021, 125, 11799-11812.	3.1	1
115	Investigation of cobalt nanodots on a Au vicinal surface by optical excitation of plasmon-like resonances using reflectance anisotropy spectroscopy. Physica Status Solidi C: Current Topics in Solid State Physics, 2005, 2, 4072-4077.	0.8	0