Francesco Geobaldo

List of Publications by Year
in descending order

125 papers	7,223 citations	43973 48 h-index	58464 82 g-index
125 all docs	125 docs citations	125 times ranked	7452 citing authors

#	Article	IF	Citations
1	Real-Time Monitoring of the In Situ Microfluidic Synthesis of Ag Nanoparticles on Solid Substrate for Reliable SERS Detection. Biosensors, 2021, 11, 520.	2.3	2
2	Innovative Coatings Based on Peppermint Essential Oil on Titanium and Steel Substrates: Chemical and Mechanical Protection Ability. Materials, 2020, 13, 516.	1.3	7
3	PEO/LAGP hybrid solid polymer electrolytes for ambient temperature lithium batteries by solvent-free, â€œone potâ€•preparation. Journal of Energy Storage, 2019, 26, 100947.	3.9	117
4	Determination of the geographical origin of green coffee beans using NIR spectroscopy and multivariate data analysis. Food Control, 2019, 99, 137-145.	2.8	102
5	Kinetic modeling of hazelnut drying: Effects of different cultivars and drying parameters. Journal of Food Process Engineering, 2018, 41, e12632.	1.5	6
6	Label-Free SERS Discrimination and In Situ Analysis of Life Cycle in Escherichia coli and Staphylococcus epidermidis. Biosensors, 2018, 8, 131.	2.3	16
7	Nanomaterials for the Abatement of Pharmaceuticals and Personal Care Products from Wastewater. Applied Sciences (Switzerland), 2018, 8, 170.	1.3	46
8	Development of an automated method for the identification of defective hazelnuts based on RGB image analysis and colourgrams. Food Control, 2018, 94, 233-240.	2.8	38
9	SERS-active metal-dielectric nanostructures integrated in microfluidic devices for label-free quantitative detection of miRNA. Faraday Discussions, 2017, 205, 271-289.	1.6	39
10	Silver-doped keratin nanofibers preserve a titanium surface from biofilm contamination and favor soft-tissue healing. Journal of Materials Chemistry B, 2017, 5, 8366-8377.	2.9	39
11	SERS-active Metal-dielectric Nanostructures Integrated in Microfluidic Devices for Ultra-sensitive Label-free miRNA Detection. Procedia Technology, 2017, 27, 37-38.	1.1	0
12	Role of ice structuring proteins on freezingâ€“thawing cycles of pasta sauces. Journal of Food Science and Technology, 2016, 53, 4216-4223.	1.4	10
13	Immobilization of Oligonucleotides on Metal-Dielectric Nanostructures for miRNA Detection. Analytical Chemistry, 2016, 88, 9554-9563.	3.2	41
14	SERS-Active Ag Nanoparticles on Porous Silicon and PDMS Substrates: A Comparative Study of Uniformity and Raman Efficiency. Journal of Physical Chemistry C, 2016, 120, 16946-16953.	1.5	57
15	A simple route toward next-gen green energy storage concept by nanofibres-based self-supporting electrodes and a solid polymeric design. Carbon, 2016, 107, 811-822.	5.4	80
16	Surface-enhanced Raman spectroscopy on porous silicon membranes decorated with Ag nanoparticles integrated in elastomeric microfluidic chips. RSC Advances, 2016, 6, 21865-21870.	1.7	32
17	Concentration quenching in an Er-doped phosphate glass for compact optical lasers and amplifiers. Journal of Alloys and Compounds, 2016, 657, 678-683.	2.8	105
18	Simultaneous determination by NIR spectroscopy of the roasting degree and Arabica/Robusta ratio in roasted and ground coffee. Food Control, 2016, 59, 683-689.	2.8	73

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19	Formation and oxygen diffusion barrier properties of fish gelatin/natural sodium montmorillonite clay self-assembled multilayers onto the biopolyester surface. RSC Advances, 2015, 5, 61465-61480.	1.7	5
20	Discrimination between washed Arabica, natural Arabica and Robusta coffees by using near infrared spectroscopy, electronic nose and electronic tongue analysis. Journal of the Science of Food and Agriculture, 2015, 95, 2192-2200.	1.7	71
21	SERS active silver nanoparticles synthesized by inkjet printing on mesoporous silicon. Nanoscale Research Letters, 2014, 9, 527.	3.1	40
22	Fe- and V-doped mesoporous titania prepared by direct synthesis: Characterization and role in the oxidation of AO7 by H2O2 in the dark. Catalysis Today, 2014, 227, 71-79.	2.2	27
23	Protein immobilization on nanoporous silicon functionalized by RF activated plasma polymerization of Acrylic Acid. Journal of Colloid and Interface Science, 2014, 416, 73-80.	5.0	25
24	Silver Nanoparticles on Porous Silicon: Approaching Single Molecule Detection in Resonant SERS Regime. Journal of Physical Chemistry C, 2013, 117, 20139-20145.	1.5	63
25	Effects of gas atmospheres on poly(lactic acid) film in acrylic acid plasma treatment. Applied Surface Science, 2013, 283, 181-187.	3.1	22
26	Surface modification of porous silicon microparticles by sonochemistry. RSC Advances, 2013, 3, 18799.	1.7	4
27	Inter-annual and seasonal variability in PM10 samples monitored in the city of Turin (Italy) from 2002 to 2005. Microchemical Journal, 2013, 107, 76-85.	2.3	19
28	Temporal trends of elements in Turin (Italy) atmospheric particulate matter from 1976 to 2001. Chemosphere, 2013, 90, 2578-2588.	4.2	19
29	Post-curing conversion kinetics as functions of the irradiation time and increment thickness. Journal of Applied Oral Science, 2013, 21, 190-195.	0.7	15
30	Switching of fluorescence mediated by a peroxynitriteâ€“glutathione redox reaction in a porous silicon nanoreactor. Physical Chemistry Chemical Physics, 2012, 14, 5251.	1.3	7
31	Direct patterning of silver particles on porous silicon by inkjet printing of a silver salt via in-situ reduction. Nanoscale Research Letters, 2012, 7, 502.	3.1	48
32	Properties of poly(lactic acid) nanocomposites based on montmorillonite, sepiolite and zirconium phosphonate. EXPRESS Polymer Letters, 2012, 6, 914-926.	1.1	69
33	SERS active Ag nanoparticles in mesoporous silicon: detection of organic molecules and peptideâ€“antibody assays. Journal of Raman Spectroscopy, 2012, 43, 730-736.	1.2	70
34	Prediction of the optimum harvest time of â€˜Scarletâ€™ apples using DR-UVâ€“Vis and NIR spectroscopy. Postharvest Biology and Technology, 2012, 69, 15-23.	2.9	45
35	Synthesis, Characterization, and Thiophene Hydrodesulfurization Activity of Novel Macroporous and Mesomacroporous Carbon. Industrial & Engineering Chemistry Research, 2011, 50, 2530-2535.	1.8	27
36	Chitosan-functionalized porous silicon optical transducer for the detection ofcarboxylic acid-containing drugs in water. Journal of Materials Chemistry, 2011, 21, 2294-2302.	6.7	59

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37	Photocatalytic Degradation of Ethylene Emitted by Fruits with TiO₂ Nanoparticles. Industrial & Engineering Chemistry Research, 2011, 50, 2536-2543.	1.8	78
38	Synthesis of amorphous silicon/magnesia based direct opals with tunable optical properties. Optical Materials, 2011, 33, 563-569.	1.7	8
39	Room temperature ammonia sensors based on zinc oxide and functionalized graphite and multi-walled carbon nanotubes. Sensors and Actuators B: Chemical, 2011, 152, 144-154.	4.0	98
40	New-generation curing units and short irradiation time: the degree of conversion of microhybrid composite resin. Quintessence International, 2011, 42, e89-95.	0.3	9
41	Synthesis, characterization, and photocatalytic application of novel TiO2 nanoparticles. Chemical Engineering Journal, 2010, 157, 45-51.	6.6	183
42	Nanoporous carbon materials obtained by sucrose carbonization in the presence of KOH. Microporous and Mesoporous Materials, 2010, 132, 414-420.	2.2	110
43	Hydrogen production from nano-porous Si powder formed by stain etching. International Journal of Hydrogen Energy, 2010, 35, 6773-6778.	3.8	51
44	Metalâ€dielectric nanostructures for amplified Raman and fluorescence spectroscopy. Physica Status Solidi C: Current Topics in Solid State Physics, 2010, 7, 1196-1199.	0.8	10
45	Synthesis under Pressure of Potential Precursors of CN _x Materials Based on Melamine and Phenolic Resins. Journal of Macromolecular Science - Physics, 2010, 49, 371-382.	0.4	15
46	Polylactic Acid and Polylactic Acid-Based Nanocomposite Photooxidation. Biomacromolecules, 2010, 11, 2919-2926.	2.6	144
47	Bioconjugate functionalization of thermally carbonized porous silicon using a radical coupling reaction. Dalton Transactions, 2010, 39, 10847.	1.6	46
48	Fast optical vapour sensing by Bloch surface waves on porous siliconmembranes. Physical Chemistry Chemical Physics, 2010, 12, 502-506.	1.3	52
49	SERSâ€active substrates based on silvered porous silicon. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 1736-1739.	0.8	21
50	Doubly resonant porous silicon microcavities for enhanced detection of fluorescent organic molecules. Sensors and Actuators B: Chemical, 2009, 137, 467-470.	4.0	39
51	Sonochemical preparation of high surface area MgAl2O4 spinel. Ultrasonics Sonochemistry, 2009, 16, 136-140.	3.8	35
52	Microstructure and optical properties of porous silicon after plasma assisted nitridation. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 1661-1664.	0.8	4
53	A version of StÃ¶ber synthesis enabling the facile prediction of silica nanospheres size for the fabrication of opal photonic crystals. Journal of Nanoparticle Research, 2008, 10, 1225-1229.	0.8	41
54	Porous silicon as efficient surface enhanced Raman scattering (SERS) substrate. Applied Surface Science, 2008, 254, 7494-7497.	3.1	78

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55	Optical response with threefold symmetry axis on oriented microdomains of opal photonic crystals. Physical Review B, 2008, 78, .	1.1	28
56	Coupling of surface waves in highly defined one-dimensional porous silicon photonic crystals for gas sensing applications. Applied Physics Letters, 2007, 91, .	1.5	66
57	Synthesis, characterization and modelling of silicon based opals. Journal of Non-Crystalline Solids, 2006, 352, 1425-1429.	1.5	26
58	Controlled light emission from dye-impregnated porous silicon microcavities. Journal of Non-Crystalline Solids, 2006, 352, 1230-1233.	1.5	9
59	Study of Porous Silicon Nanostructures as Hydrogen Reservoirs.. ChemInform, 2006, 37, no.	0.1	0
60	Self-alignment of liquid crystals in three-dimensional photonic crystals. Physical Review E, 2006, 74, 040702.	0.8	16
61	A Nanostructured Porous Silicon Near Insulator Becomes Either a p- or an n-Type Semiconductor upon Gas Adsorption. Advanced Materials, 2005, 17, 528-531.	11.1	51
62	Carriers reactivation in p+-type porous silicon accompanies hydrogen desorption. Physica Status Solidi C: Current Topics in Solid State Physics, 2005, 2, 3193-3197.	0.8	1
63	Boron passivation and its reactivation in mesoporous silicon: a â€œchemicalâ€•model. Physica Status Solidi (A) Applications and Materials Science, 2005, 202, 1567-1570.	0.8	5
64	Study of Porous Silicon Nanostructures as Hydrogen Reservoirs. Journal of Physical Chemistry B, 2005, 109, 19711-19718.	1.2	80
65	ESR Study of Conduction Electrons in B-Doped Porous Silicon Generated by the Adsorption of Lewis Bases. Journal of the Electrochemical Society, 2005, 152, G329.	1.3	8
66	A new route to the surface functionalisation of porous silicon. Sensors and Actuators B: Chemical, 2004, 100, 29-32.	4.0	11
67	Free carriers reactivation on p+-mesoporous silicon through ammonia adsorption: a FTIR study. Sensors and Actuators B: Chemical, 2004, 100, 205-208.	4.0	17
68	Oxidised porous silicon impregnated with Congo Red for chemical sensoring applications. Sensors and Actuators B: Chemical, 2004, 100, 99-102.	4.0	31
69	Chemisorption of NO2at Boron Sites at the Surface of Nanostructured Mesoporous Silicon. Journal of Physical Chemistry B, 2004, 108, 18306-18310.	1.2	12
70	IR study of the acidity of ITQ-2, an â€œall-surfaceâ€•zeolitic system. Journal of Catalysis, 2003, 214, 191-199.	3.1	57
71	Reversible Insulator-to-Metal Transition in p+-Type Mesoporous Silicon Induced by the Adsorption of Ammonia. Angewandte Chemie - International Edition, 2003, 42, 5032-5035.	7.2	43
72	Porous silicon in NO2: A chemisorption mechanism for enhanced electrical conductivity. Physica Status Solidi A, 2003, 197, 103-106.	1.7	15

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73	Joint FTIR and TPD study of hydrogen desorption from p-type porous silicon. Physica Status Solidi A, 2003, 197, 217-221.	1.7	25
74	Sensing CO2 in a chemically modified porous silicon film. Physica Status Solidi A, 2003, 197, 365-369.	1.7	54
75	Free carriers reactivation in mesoporous p-type silicon by ammonia condensation: an FTIR study. Physica Status Solidi A, 2003, 197, 458-461.	1.7	10
76	An FTIR Study of Zeolite Theta-1. Journal of Physical Chemistry B, 2003, 107, 1258-1262.	1.2	13
77	IR Evidence that Secondary Interactions May Hamper H-Bonding at Protonic Sites in Zeolites. Journal of Physical Chemistry B, 2002, 106, 10518-10522.	1.2	18
78	H-Bond Formation and Proton Transfer in H-MCM-22 Zeolite as Compared to H-ZSM-5 and H-MOR:â€‰ An FTIR Study. Journal of Physical Chemistry B, 2002, 106, 1684-1690.	1.2	31
79	Permeability of micelles in surfactant-containing MCM-41 silica as monitored by embedded dye molecules. Chemical Communications, 2001, , 2216-2217.	2.2	40
80	IR detection of NO2 using p+ porous silicon as a high sensitivity sensor. Chemical Communications, 2001, , 2196-2197.	2.2	25
81	Local environment of Boron impurities in porous silicon and their interaction withNO2molecules. Physical Review B, 2001, 64, .	1.1	54
82	Nature and reactivity of Co species in a cobalt-containing beta zeolite: an FTIR study. Catalysis Today, 2001, 70, 107-119.	2.2	47
83	Thermodynamics of Hydrogen Bonding between CO and the Supercage BrÃ¸nsted Acid Sites of the H-Y Zeolite â^' Studies from Variable Temperature IR Spectrometry. European Journal of Inorganic Chemistry, 2001, 2001, 1739-1743.	1.0	31
84	Sulphur poisoning of LaMn1â^'xMgxO3 catalysts for natural gas combustion. Applied Catalysis B: Environmental, 2001, 30, 61-73.	10.8	50
85	Sulphur poisoning of LaMn1â^'xMgxO3Â·yMgO catalysts for methane combustion. Applied Catalysis B: Environmental, 2001, 34, 29-41.	10.8	34
86	Towards a Deeper Comprehension of the Interaction Mechanisms between Mesoporous Silicon and NO2. Physica Status Solidi A, 2000, 182, 465-471.	1.7	14
87	NO2 monitoring at room temperature by a porous silicon gas sensor. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2000, 69-70, 210-214.	1.7	126
88	Voltammetric characterization of structural titanium species in zeotypes. Electrochemistry Communications, 2000, 2, 349-352.	2.3	20
89	Development of a Methane Premixed Catalytic Burner for Household Applications. Industrial & Engineering Chemistry Research, 2000, 39, 24-33.	1.8	23
90	The vibrational spectroscopy of H2, N2, CO and NO adsorbed on the titanosilicate molecular sieve ETS-10. Physical Chemistry Chemical Physics, 1999, 1, 1649-1657.	1.3	121

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91	Nitrosylic complexes in Ag(I)â€“ZSM-5: a comparison with Cu(I)â€“ZSM-5. Microporous and Mesoporous Materials, 1999, 30, 129-135.	2.2	27
92	FTIR investigation of the interaction at 77 K of diatomic molecular probes on MCM-22 zeolite. Microporous and Mesoporous Materials, 1999, 30, 119-127.	2.2	65
93	New Method for Catalyst Powder Manufacturing Based on Solvent Combustion. Magyar AprÃ³vad KÃ¶zlemÃ©nyek, 1999, 56, 1435-1442.	1.4	3
94	Heterocycles oligomerization in acidic zeolites: a UV-visible and IR study. Topics in Catalysis, 1999, 8, 279-292.	1.3	32
95	Propene adsorption and reaction on zeolites and pillared clays. Research on Chemical Intermediates, 1999, 25, 111-129.	1.3	3
96	Methane combustion on Mg-doped LaMnO3 perovskite catalysts. Applied Catalysis B: Environmental, 1999, 20, 277-288.	10.8	141
97	Spectroscopic study in the UV-Vis, near and mid IR of cationic species formed by interaction of thiophene, dithiophene and terthiophene with the zeolite H-Y. Physical Chemistry Chemical Physics, 1999, 1, 561-569.	1.3	44
98	Solid state equilibria in the system Al2O3î—¸La2O3î—¸Cr2O3: Reactivity catalyst/support. Journal of the European Ceramic Society, 1998, 18, 607-611.	2.8	5
99	XANES, EXAFS and FTIR characterization of copper-exchanged mordenite. Journal of the Chemical Society, Faraday Transactions, 1998, 94, 1519-1525.	1.7	92
100	Evidence of the Presence of Two Different Framework Ti(IV) Species in Tiâ^'Silicalite-1 in Vacuo Conditions:Â an EXAFS and a Photoluminescence Study. Journal of Physical Chemistry B, 1998, 102, 6382-6390.	1.2	183
101	Propene oligomerization on H-mordenite: Hydrogen-bonding interaction, chain initiation, propagation and hydrogen transfer studied by temperature-programmed FTIR and UVâ€“VIS spectroscopies. Journal of the Chemical Society, Faraday Transactions, 1997, 93, 1243-1249.	1.7	90
102	FTIR study of CO adsorbed at low temperature on zeolite L Evidence for an ordered distribution of aluminium atoms. Journal of the Chemical Society, Faraday Transactions, 1997, 93, 189-191.	1.7	21
103	XAFS, IR, and UVâ^'Vis Study of the CuIEnvironment in CuI-ZSM-5. Journal of Physical Chemistry B, 1997, 101, 344-360.	1.2	345
104	Evolution of Fe3+from Framework to Extra-Framework Species in Fe-Silicate as a Function of the Template Burning Temperature. European Physical Journal Special Topics, 1997, 7, C2-907-C2-908.	0.2	1
105	IR spectroscopy of neutral and ionic hydrogen-bonded complexes formed upon interaction of CH3OH, C2H5OH, (CH3)2O, (C2H5)2O and C4H8O with H-Y, H-ZSM-5 and H-mordenite: comparison with analogous adducts formed on the H-Nafion superacidic membrane. Journal of the Chemical Society, Faraday Transactions, 1996, 92, 4863-4875.	1.7	115
106	FTIR Investigation of the Formation of Neutral and Ionic Hydrogen-Bonded Complexes by Interaction of H-ZSM-5 and H-Mordenite with CH3CN and H2O:Â Comparison with the H-NAFION Superacidic System. The Journal of Physical Chemistry, 1996, 100, 16584-16599.	2.9	165
107	Structure and Reactivity of Framework and Extraframework Iron in Fe-Silicalite as Investigated by Spectroscopic and Physicochemical Methods. Journal of Catalysis, 1996, 158, 486-501.	3.1	604
108	Infrared studies of the interaction of carbon monoxide and dinitrogen with ferrisilicate MFI-type zeolites. Catalysis Letters, 1996, 42, 25-33.	1.4	69

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109	The interaction between hydrogen peroxide and metal oxides: EPR investigations. Applied Magnetic Resonance, 1996, 10, 173-192.	0.6	35
110	IR studies of CO and NO adsorbed on well characterized oxide single microcrystals. Catalysis Today, 1996, 27, 403-435.	2.2	127
111	Host- guest interactions in zeolite cavities. Studies in Surface Science and Catalysis, 1995, 97, 213-222.	1.5	29
112	XANES study of Ti and Fe substituted silicalites in presence and in absence of NH3 and comparison with UV-vis, IR and Raman spectra. Nuclear Instruments & Methods in Physics Research B, 1995, 97, 23-27.	0.6	23
113	N2 Adsorption at 77 K on H-Mordenite and Alkali-Metal-Exchanged Mordenites: An IR Study. The Journal of Physical Chemistry, 1995, 99, 11167-11177.	2.9	120
114	Stretching frequencies of cationâ€CO adducts in alkaliâ€metal exchanged zeolites: An elementary electrostatic approach. Journal of Chemical Physics, 1995, 103, 3158-3165.	1.2	98
115	Fourier-Transform Infrared Study of CO Adsorbed at 77 K on H-Mordenite and Alkali-Metal-Exchanged Mordenites. Langmuir, 1995, 11, 527-533.	1.6	158
116	Formation of Culâ€”N2adducts at 298 and 77 K in CuI-ZSM-5: an FTIR investigation. Journal of the Chemical Society, Faraday Transactions, 1995, 91, 3285-3290.	1.7	95
117	CoOâ€“ZnO solid solution as a model to investigate the COâ€“cation interaction: an FTIR and HRTEM study. Journal of the Chemical Society, Faraday Transactions, 1995, 91, 4445-4450.	1.7	9
118	Chapter 4 Characterization of V2O5-TiO2 Eurocat catalysts by vibrational and electronic spectroscopies. Catalysis Today, 1994, 20, 61-76.	2.2	41
119	Chapter 5.2 EPR characterization of V2O5/TiO2 eurocat catalysts. Catalysis Today, 1994, 20, 87-95.	2.2	11
120	Thermolysis of mixed alums: a route to mesoporous chromia-alumina. Materials Chemistry and Physics, 1993, 34, 214-218.	2.0	6
121	Evidence of stable hydroxyl radicals and other oxygen radical species generated by interaction of hydrogen peroxide with magnesium oxide. The Journal of Physical Chemistry, 1993, 97, 5735-5740.	2.9	57
122	Fourier-transform infrared and Raman spectra of pure and Al-, B-, Ti- and Fe-substituted silicalites: stretching-mode region. Journal of the Chemical Society, Faraday Transactions, 1993, 89, 4123.	1.7	277
123	Ammoximation of Cyclohexanone on Titanium Silicalite: Investigation of the Reaction Mechanism. Studies in Surface Science and Catalysis, 1993, 75, 719-729.	1.5	60
124	DRS UV-Vis and EPR spectroscopy of hydroperoxo and superoxo complexes in titanium silicalite. Catalysis Letters, 1992, 16, 109-115.	1.4	352
125	An EPR study on the formation of the superoxide radical ion on monoclinic zirconia. Materials Chemistry and Physics, 1991, 29, 379-386.	2.0	41