

Francesco Silvio Gentile

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

572
citations

687363

13
h-index

642732

23
g-index

40
all docs

40
docs citations

40
times ranked

434
citing authors

#	ARTICLE	IF	CITATIONS
1	The NVO defects in diamond: A quantum mechanical characterization through its vibrational and Electron Paramagnetic Resonance spectroscopies. <i>Journal of Physics and Chemistry of Solids</i> , 2022, 160, 110304.	4.0	3
2	Strategies for the optimization of the structure of crystalline compounds. <i>Journal of Computational Chemistry</i> , 2022, 43, 184-196.	3.3	9
3	Benzodifuran-based fluorescent brighteners: A novel platform for plant cell wall imaging. <i>Dyes and Pigments</i> , 2022, 199, 110071.	3.7	3
4	The calculated energies and charge and spin distributions of the excited GR1 state in diamond. <i>Journal of Chemical Physics</i> , 2022, 156, 044708.	3.0	7
5	Structural feature of thermo-induced fluorochromism in a 1D zinc coordination polymer. A cross-analysis by PL and FTIR spectroscopy, and DFT formalism. <i>Dyes and Pigments</i> , 2022, 202, 110247.	3.7	5
6	Thermo-Induced Fluorochromism in Two AIE Zinc Complexes: A Deep Insight into the Structure-Property Relationship. <i>Molecules</i> , 2022, 27, 2551.	3.8	3
7	Colorimetric recognition of multiple first-row transition metals: A single water-soluble chemosensor in acidic and basic conditions. <i>Dyes and Pigments</i> , 2021, 184, 108832.	3.7	15
8	Interstitial carbon defects in silicon. A quantum mechanical characterization through the infrared and Raman spectra. <i>Journal of Computational Chemistry</i> , 2021, 42, 806-817.	3.3	2
9	Oxygen and vacancy defects in silicon. A quantum mechanical characterization through the IR and Raman spectra. <i>Journal of Chemical Physics</i> , 2021, 154, 174707.	3.0	4
10	Fluorescence pH-dependent sensing of zinc (II) and chromium (III) cations by a tripodal ligand and exploration of emission response in solution and in the solid state. <i>Dyes and Pigments</i> , 2021, 193, 109567.	3.7	0
11	Vibrational Analysis of Paraelectric-Ferroelectric Transition of LiNbO ₃ : An Ab-Initio Quantum Mechanical Treatment. <i>Symmetry</i> , 2021, 13, 1650.	2.2	2
12	The NV ⁻ N ⁺ charged pair in diamond: a quantum-mechanical investigation. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 18724-18733.	2.8	2
13	The effect of charge and spin state on the Infrared spectra and hyperfine coupling constants of point defects in Silicon. <i>Physica B: Condensed Matter</i> , 2021, 626, 413499.	2.7	0
14	Characterization of the negatively charged NV defect through the spin density distribution and the hyperfine coupling constants. <i>Journal of Physics and Chemistry of Solids</i> , 2021, , 110506.	4.0	0
15	A Novel L-Shaped Fluorescent Probe for AIE Sensing of Zinc (II) Ion by a DR/NIR Response. <i>Molecules</i> , 2021, 26, 7347.	3.8	6
16	The VN ₂ negatively charged defect in diamond. A quantum mechanical investigation of the EPR response. <i>Carbon</i> , 2020, 159, 443-450.	10.3	17
17	Hierarchy of Intermolecular Interactions and Selective Topochemical Reactivity in Different Polymorphs of Fused-Ring Heteroaromatics. <i>Crystal Growth and Design</i> , 2020, 20, 1229-1236.	3.0	13
18	The VN defect in diamond: A quantum mechanical simulation of the vibrational spectra and EPR properties. <i>Carbon</i> , 2020, 170, 600-605.	10.3	5

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19	Interstitial defects in diamond: A quantum mechanical simulation of their EPR constants and vibrational spectra. <i>Journal of Chemical Physics</i> , 2020, 153, 024119.	3.0	6
20	Microscopic Characterization of Oxygen Defects in Diamond as Models for N3 and OK1 Defects: A Comparison of Calculated and Experimental Electron Paramagnetic Resonance Data. <i>Journal of Physical Chemistry A</i> , 2020, 124, 8263-8272.	2.5	2
21	Predicted strong spin-phonon interactions in Li-doped diamond. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 20612-20617.	2.8	5
22	Metal defects in HKUST-1 MOF revealed by vibrational spectroscopy: a combined quantum mechanical and experimental study. <i>Journal of Materials Chemistry A</i> , 2020, 8, 10796-10812.	10.3	43
23	The CRYSTAL code, 1976–2020 and beyond, a long story. <i>Journal of Chemical Physics</i> , 2020, 152, 204111.	3.0	133
24	N ₂ positively charged defects in diamond. A quantum mechanical investigation of the structural, electronic, EPR and vibrational properties. <i>Journal of Materials Chemistry C</i> , 2020, 8, 5239-5247.	5.5	10
25	An all-electron study of the low-lying excited states and optical constants of Al ₂ O ₃ in the range 5–80 eV. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 085901.	1.8	8
26	The spectroscopic characterization of interstitial oxygen in bulk silicon: A quantum mechanical simulation. <i>Journal of Chemical Physics</i> , 2020, 152, 054502.	3.0	5
27	Substitutional carbon defects in silicon: A quantum mechanical characterization through the infrared and Raman spectra. <i>Journal of Computational Chemistry</i> , 2020, 41, 1638-1644.	3.3	8
28	Nitrogen interstitial defects in silicon. A quantum mechanical investigation of the structural, electronic and vibrational properties. <i>Materials Today Communications</i> , 2019, 21, 100616.	1.9	9
29	Nitrogen substitutional defects in silicon. A quantum mechanical investigation of the structural, electronic and vibrational properties. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 20939-20950.	2.8	19
30	On the Models for the Investigation of Charged Defects in Solids: The Case of the VN ⁺ Defect in Diamond. <i>Journal of Physical Chemistry A</i> , 2019, 123, 4806-4815.	2.5	4
31	The characterization of the VN H defects in diamond through the infrared vibrational spectrum. A quantum mechanical investigation. <i>Carbon</i> , 2018, 132, 210-219.	10.3	20
32	Vibrational spectroscopy of hydrogens in diamond: a quantum mechanical treatment. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 11930-11940.	2.8	17
33	Substitutional nitrogen in diamond: A quantum mechanical investigation of the electronic and spectroscopic properties. <i>Carbon</i> , 2018, 134, 354-365.	10.3	42
34	Strong Metal–Support Interactions of TiN and TiO ₂ –Nickel Nanocomposite Catalysts. <i>Journal of Physical Chemistry C</i> , 2018, 122, 339-348.	3.1	22
35	Characterization of the B-Center Defect in Diamond through the Vibrational Spectrum: A Quantum-Mechanical Approach. <i>Journal of Physical Chemistry A</i> , 2018, 122, 594-600.	2.5	23
36	Hydrogen, boron and nitrogen atoms in diamond: a quantum mechanical vibrational analysis. <i>Theoretical Chemistry Accounts</i> , 2018, 137, 1.	1.4	16

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37	The VN ₃ H defect in diamond: a quantum-mechanical characterization. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 22221-22229.	2.8	20
38	Hindered Brownian diffusion in a square-shaped geometry. <i>Journal of Colloid and Interface Science</i> , 2015, 447, 25-32.	9.4	9
39	Experimental evidence of stable water nanostructures in extremely dilute solutions, at standard pressure and temperature. <i>Homeopathy</i> , 2014, 103, 44-50.	1.0	53
40	Effect of chalcogen bonding on the packing and coordination geometry in hybrid organic–inorganic Cu(II) networks. <i>CrystEngComm</i> , 0, , .	2.6	2