## Angelo Gavezzotti

List of Publications by Year in descending order

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52 3,750 25 45
papers citations h-index g-index

52 52 52 3419
all docs docs citations times ranked citing authors

#	Article	IF	CITATIONS
1	Molecular dynamics simulation of organic materials: structure, potentials and the MiCMoS computer platform. CrystEngComm, 2022, 24, 922-930.	2.6	8
2	The crystalline state of rubrene materials: intermolecular recognition, isomorphism, polymorphism, and periodic bond-chain analysis of morphologies. New Journal of Chemistry, 2022, 46, 7626-7637.	2.8	4
3	Dynamic simulation of orientational disorder in organic crystals: methyl groups, trifluoromethyl groups and whole molecules. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2022, 78, 333-343.	1.1	4
4	Kinetic-Bias Model for the Dynamic Simulation of Molecular Aggregation. The Liquid, Solute, Solvated-Nanodrop, and Solvated-Nanocrystal States of Benzoic Acid. Crystal Growth and Design, 2022, 22, 1857-1866.	3.0	5
5	Collective Variables for the Simulation of Crystallization of Organic Compounds: Some Case Studies. Israel Journal of Chemistry, 2021, 61, 498.	2.3	1
6	Crystal structure prediction from molecular structure: Highlights and shadows. Theoretical and Computational Chemistry, 2021, 20, 115-142.	0.4	1
7	The intermolecular chemical bond: Physical facts and geometric fiction. Theoretical and Computational Chemistry, 2021, 20, 25-52.	0.4	O
8	Multi-molecular asymmetric units and cocrystals: Symmetry violation. Theoretical and Computational Chemistry, $2021, 169-199$ .	0.4	0
9	The organic crystal potential: History, development, and today's cost/performance ratios. Theoretical and Computational Chemistry, 2021, 20, 85-113.	0.4	O
10	X-ray analysis of crystals and the Cambridge structural database: Use and better uses. Theoretical and Computational Chemistry, 2021, , 53-83.	0.4	0
11	Organic crystal nucleation and growth: Little knowledge, much mystery. Theoretical and Computational Chemistry, 2021, 20, 201-229.	0.4	1
12	The dynamic simulation of aggregate chemical systems: Use and misuse of long lists of numbers. Theoretical and Computational Chemistry, 2021, 20, 231-265.	0.4	0
13	Molecular Dynamics Simulation of Molecular Crystals under Anisotropic Compression: Bulk and Directional Effects in Anthracene and Paracetamol. Crystal Growth and Design, 2020, 20, 7421-7428.	3.0	6
14	Mining the Cambridge Database for theoretical chemistry. Mi-LJC: a new set of Lennard-Jones–Coulomb atom–atom potentials for the computer simulation of organic condensed matter. CrystEngComm, 2020, 22, 7350-7360.	2.6	17
15	Sublimation Enthalpies of Organic Compounds: A Very Large Database with a Match to Crystal Structure Determinations and a Comparison with Lattice Energies. Crystal Growth and Design, 2019, 19, 6566-6576.	3.0	23
16	Dynamic simulation of liquid molecular nanoclusters: structure, stability and quantification of internal (pseudo)symmetries. New Journal of Chemistry, 2019, 43, 2077-2084.	2.8	11
17	Molecular dynamics simulation of organic crystals: introducing the <i>CLP-dyncry</i> environment. Journal of Applied Crystallography, 2019, 52, 1253-1263.	4.5	17
18	Pillars of crystal engineering: crystal energies and symmetry operators. CrystEngComm, 2018, 20, 2511-2518.	2.6	8

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19	The TACO Puzzle: A Phase-Transition Mystery Revisited. Crystal Growth and Design, 2018, 18, 7219-7227.	3.0	5
20	Two-component organic crystals without hydrogen bonding: structure and intermolecular interactions in bimolecular stacking. CrystEngComm, 2017, 19, 2413-2423.	2.6	30
21	A quantitative measure of halogen bond activation in cocrystallization. Physical Chemistry Chemical Physics, 2017, 19, 18383-18388.	2.8	14
22	Building Blocks of Crystal Engineering: A Large-Database Study of the Intermolecular Approach between C–H Donor Groups and O, N, Cl, or F Acceptors in Organic Crystals. Crystal Growth and Design, 2016, 16, 2952-2962.	3.0	57
23	Facts and Factors in the Formation and Stability of Binary Crystals. Crystal Growth and Design, 2016, 16, 6095-6104.	3.0	43
24	Comparing the strength of covalent bonds, intermolecular hydrogen bonds and other intermolecular interactions for organic molecules: X-ray diffraction data and quantum chemical calculations. New Journal of Chemistry, 2016, 40, 6848-6853.	2.8	41
25	Theoretical Study of Chiral Carboxylic Acids. Structural and Energetic Aspects of Crystalline and Liquid States. Crystal Growth and Design, 2015, 15, 3792-3803.	3.0	64
26	Are Racemic Crystals Favored over Homochiral Crystals by Higher Stability or by Kinetics? Insights from Comparative Studies of Crystalline Stereoisomers. Journal of Organic Chemistry, 2014, 79, 4809-4816.	3.2	41
27	Molecular Level Insights on the Liquid–Solid Transition of Large Organics by Biased Monte Carlo Simulations. Crystal Growth and Design, 2013, 13, 3801-3815.	3.0	10
28	Equilibrium structure and dynamics of organic crystals by Monte Carlo simulation: critical assessment of force fields and comparison with static packing analysis. New Journal of Chemistry, 2013, 37, 2110.	2.8	25
29	The "sceptical chymist― intermolecular doubts and paradoxes. CrystEngComm, 2013, 15, 4027.	2.6	89
30	Can a computer crystallize a liquid? Molecular simulation of continuous trajectories from liquid to crystalline n-hexane. CrystEngComm, 2011, 13, 3573.	2.6	15
31	Intermolecular Interaction Energies in Molecular Crystals: Comparison and Agreement of Localized MÃ,ller–Plesset 2, Dispersion-Corrected Density Functional, and Classical Empirical Two-Body Calculations. Journal of Physical Chemistry A, 2011, 115, 11179-11186.	2.5	169
32	Efficient computer modeling of organic materials. The atomâ€"atom, Coulombâ€"Londonâ€"Pauli (AA-CLP) model for intermolecular electrostatic-polarization, dispersion and repulsion energies. New Journal of Chemistry, 2011, 35, 1360.	2.8	322
33	How molecules stick together in organic crystals: weak intermolecular interactions. Chemical Society Reviews, 2009, 38, 2622.	38.1	277
34	Competition between hydrogen bonding and arene–perfluoroarene stacking. X-Ray diffraction and molecular simulation on 5,6,7,8-tetrafluoro-2-naphthoic acid and 5,6,7,8-tetrafluoro-2-naphthamide crystals. CrystEngComm, 2009, 11, 1122.	2.6	22
35	Hydrogen bond strength and bond geometry in cyclic dimers of crystalline carboxylic acids. Acta Crystallographica Section B: Structural Science, 2008, 64, 401-403.	1.8	31
36	Polymorphic Perversity: Crystal Structures with Many Symmetry-Independent Molecules in the Unit Cell. Crystal Growth and Design, 2008, 8, 2011-2018.	3.0	96

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37	Non-conventional bonding between organic molecules. The 'halogen bond' in crystalline systems. Molecular Physics, 2008, 106, 1473-1485.	1.7	216
38	Computer Simulations and Analysis of Structural and Energetic Features of Some Crystalline Energetic Materials. Journal of Physical Chemistry B, 2007, 111, 3430-3437.	2.6	67
39	Synthesis, X-ray Diffraction and Computational Study of the Crystal Packing of Polycyclic Hydrocarbons Featuring Aromatic and Perfluoroaromatic Rings Condensed in the Same Molecule: 1,2,3,4-Tetrafluoronaphthalene, -anthracene and -phenanthrene. Chemistry - A European Journal, 2007, 13, 7177-7184.	3.3	74
40	Molecular Recognition in Organic Crystals: Directed Intermolecular Bonds or Nonlocalized Bonding?. Angewandte Chemie - International Edition, 2005, 44, 1766-1787.	13.8	403
41	Toward a Quantitative Description of Crystal Packing in Terms of Molecular Pairs:  Application to the Hexamorphic Crystal System, 5-Methyl-2-[(2-nitrophenyl)amino]-3-thiophenecarbonitrileâ€. Crystal Growth and Design, 2005, 5, 2180-2189.	3.0	91
42	Cocrystallization with Acetylene. The 1 : 1 Complex with Benzene: Crystal Growth, X-Ray Diffraction and Molecular Simulations. Helvetica Chimica Acta, 2003, 86, 1085-1100.	1.6	59
43	Towards a realistic model for the quantitative evaluation of intermolecular potentials and for the rationalization of organic crystal structures. Part I. PhilosophyElectronic Supplementary Information (ESI) is available: the GAUSSIAN input files, the Pixel-SCDS input and output files have been deposited. See http://www.rsc.org/suppdata/ce/b3/b311831b/, CrystEngComm, 2003, 5, 429.	2.6	90
44	X-ray Diffraction and Molecular Simulation Study of the Crystalline and Liquid States of Succinic Anhydride. Chemistry - A European Journal, 2002, 8, 1710-1718.	3.3	17
45	A test of crystal structure prediction of small organic molecules. Acta Crystallographica Section B: Structural Science, 2000, 56, 697-714.	1.8	376
46	Attractions and Repulsions in Molecular Crystals:Â What Can Be Learned from the Crystal Structures of Condensed Ring Aromatic Hydrocarbons?. Accounts of Chemical Research, 1999, 32, 677-684.	15.6	186
47	Orthorhombic and Monoclinic 2,3,7,8-Tetramethoxythianthrene: Small Structural Difference–Large Lattice Change. Angewandte Chemie International Edition in English, 1995, 34, 76-78.	4.4	12
48	Molecular symmetry, melting temperatures and melting enthalpies of substituted benzenes and naphthalenes. Journal of the Chemical Society Perkin Transactions II, 1995, , 1399.	0.9	53
49	Geometry of the Intermolecular X-H.cntdotcntdotcntdot.Y (X, Y = N, O) Hydrogen Bond and the Calibration of Empirical Hydrogen-Bond Potentials. The Journal of Physical Chemistry, 1994, 98, 4831-4837.	2.9	390
50	Empirical intermolecular potentials for organic crystals: the `6-exp' approximation revisited. Acta Crystallographica Section B: Structural Science, 1993, 49, 868-880.	1.8	203
51	Molecular rearrangements in organic crystals. I. Potential energy calculations for some cases of reorientational disorder. The Acta Crystallographica Section A, Crystal Physics, Diffractionoretical and General Crystallography, 1975, 31, 645-654.	0.6	56
52	Crystallography without Crystals: A Structural Study of Fakein. Helvetica Chimica Acta, 0, , .	1.6	0