

Roberto Bini

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

152 papers	3,772 citations	34 h-index	55 g-index
163 ext. papers	4,135 ext. citations	6.2 avg, IF	5.26 L-index

#	Paper	IF	Citations
152	High-Pressure Synthesis of 1D Low-Bandgap Polymers Embedded in Diamond-like Carbon Nanothreads. <i>Chemistry of Materials</i> , 2022 , 34, 2422-2428	9.6	3
151	Crystal Structure and Non-Hydrostatic Stress-Induced Phase Transition of Urotropine Under High Pressure. <i>Chemistry - A European Journal</i> , 2021 , 27, 1094-1102	4.8	3
150	Synthesis of double core chromophore-functionalized nanothreads by compressing azobenzene in a diamond anvil cell. <i>Chemical Science</i> , 2021 , 12, 7048-7057	9.4	9
149	Extending the Stability Field of Polymeric Carbon Dioxide Phase V beyond the Earth's Geotherm. <i>Physical Review Letters</i> , 2021 , 126, 065701	7.4	3
148	Structure-Reactivity Relationship in the High-Pressure Formation of Double-Core Carbon Nanothreads from Azobenzene Crystal. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 17174-17182	3.8	6
147	Insertion of Oxygen and Nitrogen in the Siliceous Zeolite TON at High Pressure. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 19517-19524	3.8	
146	Modification of local and collective dynamics of water in perchlorate solution, induced by pressure and concentration. <i>Journal of Molecular Liquids</i> , 2021 , 337, 116273	6	
145	Structural and Chemical Modifications of Carbon Dioxide on Transport to the Deep Earth. <i>Geophysical Monograph Series</i> , 2020 , 55-65	1.1	1
144	Pressure Effects on Water Dynamics by Time-Resolved Optical Kerr Effect. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 3063-3068	6.4	6
143	Pressure-induced amorphization and existence of molecular and polymeric amorphous forms in dense SO. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 8736-8742	11.5	3
142	Modulating the H-bond strength by varying the temperature for the high pressure synthesis of nitrogen rich carbon nanothreads. <i>Nanoscale</i> , 2020 , 12, 5233-5242	7.7	13
141	High-Pressure Synthesis of Cyclic Phosphazenes by Near-UV Photoinduced Reactivity of NH ₃ and Elemental Phosphorus. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 4308-4319	3.8	0
140	Pressure-Induced Polymerization of Polycyclic Arene-Perfluoroarene Cocrystals: Single Crystal X-ray Diffraction Studies, Reaction Kinetics, and Design of Columnar Hydrofluorocarbons. <i>Journal of the American Chemical Society</i> , 2020 , 142, 18907-18923	16.4	19
139	High pressure synthesis of phosphine from the elements and the discovery of the missing (PH) ₃ tile. <i>Nature Communications</i> , 2020 , 11, 6125	17.4	2
138	Accessing the Activation Mechanisms of Ethylene Photo-Polymerization under Pressure by Transient Infrared Absorption Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 8149-8157	3.4	0
137	Growth Dynamics of Crystalline Ar Hydrate. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 10159-10166	3.8	1
136	Linear, Non-Conjugated Cyclic and Conjugated Cyclic Paraphenylene under Pressure. <i>Molecules</i> , 2019 , 24,	4.8	2

135	Dense, Subnano Phase of Clustered O ₂ . <i>Journal of Physical Chemistry C</i> , 2019 , 123, 9651-9657	3.8	1
134	Structure and Reactivity of the Ionic Liquid 1-Allyl-3-methylimidazolium Iodide under High Pressure. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 1822-1830	3.4	2
133	Superheating and Homogeneous Melting Dynamics of Bulk Ice. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 4517-4522	6.4	7
132	Structure and reactivity of 2,4,6-tricyano-1,3,5-triazine under high-pressure conditions. <i>CrystEngComm</i> , 2019 , 21, 4493-4500	3.3	4
131	A Perspective on Recent Advances in Phosphorene Functionalization and Its Applications in Devices. <i>European Journal of Inorganic Chemistry</i> , 2019 , 2019, 1476-1494	2.3	26
130	The role of H-bond in the high-pressure chemistry of model molecules. <i>Journal of Physics Condensed Matter</i> , 2018 , 30, 094001	1.8	15
129	The Photochemistry of Crystalline Nitromethane under Static Pressure. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 2023-2031	3.8	5
128	One-dimensional diamondoid polyaniline-like nanothreads from compressed crystal aniline. <i>Chemical Science</i> , 2018 , 9, 254-260	9.4	47
127	Topochemical Polymerization of Phenylacetylene Macrocycles under Pressure. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 20034-20039	3.8	5
126	Spray-loading: A cryogenic deposition method for diamond anvil cell. <i>Review of Scientific Instruments</i> , 2018 , 89, 053903	1.7	3
125	Impact of High Pressure on Metallophilic Interactions and Its Consequences for Spectroscopic Properties of a Model Tetranuclear Silver(I)-Copper(I) Complex in the Solid State. <i>Inorganic Chemistry</i> , 2018 , 57, 8509-8520	5.1	6
124	Crystalline polymeric carbon dioxide stable at megabar pressures. <i>Nature Communications</i> , 2018 , 9, 31481	7.4	19
123	The p-sc structure in phosphorus: bringing order to the high pressure phases of group 15 elements. <i>Chemical Communications</i> , 2018 , 54, 10554-10557	5.8	9
122	Effect of Structural Anisotropy in High-Pressure Reaction of Aniline. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 29158-29164	3.8	10
121	Intermolecular Interactions in Highly Disordered, Confined Dense N. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 2406-2411	6.4	7
120	Melting dynamics of ice in the mesoscopic regime. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 5935-5940	11.5	5
119	Probing the Chemical Stability of Aniline under High Pressure. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 7495-7501	3.8	13
118	High-Pressure High-Temperature Structural Properties of Urea. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 2380-2387	3.8	18

- 117 Interlayer Bond Formation in Black Phosphorus at High Pressure. *Angewandte Chemie - International Edition*, **2017**, 56, 14135-14140 16.4 21
- 116 Synthesis of High-Quality Crystalline Carbon Nitride Oxide by Selectively Driving the High-Temperature Instability of Urea with Pressure. *Journal of Physical Chemistry C*, **2017**, 121, 19872-19879 3.8 6
- 115 Interlayer Bond Formation in Black Phosphorus at High Pressure. *Angewandte Chemie*, **2017**, 129, 14323-14328 16.4 21
- 114 Graphene oxide and simple molecules at high pressure: new perspectives for 2D nanoconfined chemistry of carbon based materials. *Journal of Physics: Conference Series*, **2017**, 950, 032014 0.3
- 113 Pressure Dependence of Hydrogen-Bond Dynamics in Liquid Water Probed by Ultrafast Infrared Spectroscopy. *Journal of Physical Chemistry Letters*, **2016**, 7, 3579-84 6.4 14
- 112 High-Pressure Chemistry of Graphene Oxide in the Presence of Ar, N₂, and NH₃. *Journal of Physical Chemistry C*, **2016**, 120, 5174-5187 3.8 7
- 111 Carbon enters silica forming a cristobalite-type CO-SiO solid solution. *Nature Communications*, **2016**, 7, 13417 17.4 1
- 110 Correspondence: Reply to Strongly-driven Re+CO redox reaction at high-pressure and high-temperatures *Nature Communications*, **2016**, 7, 13538 17.4 6
- 109 Pressure induced polymerization of fluid ethylene. *Journal of Chemical Physics*, **2016**, 145, 164504 3.9 6
- 108 Synthesis of 1D Polymer/Zeolite Nanocomposites under High Pressure. *Chemistry of Materials*, **2016**, 28, 4065-4071 9.6 25
- 107 Triggering the Chemical Instability of an Ionic Liquid under High Pressure. *Journal of Physical Chemistry B*, **2016**, 120, 9097-102 3.4 5
- 106 Lattice expansion of graphite oxide by pressure induced insertion of liquid ammonia. *Carbon*, **2015**, 93, 484-491 10.4 6
- 105 High Pressure Synthesis of All-Transoid Polycarbonyl [(C₂O)]_n in a Zeolite. *Chemistry of Materials*, **2015**, 27, 6486-6489 9.6 22
- 104 Structural and Electronic Competing Mechanisms in the Formation of Amorphous Carbon Nitride by Compressing s-Triazine. *Journal of Physical Chemistry C*, **2015**, 119, 28560-28569 3.8 26
- 103 High-Pressure Photoinduced Synthesis of Polynitrogen in End ? Nitrogen Crystals Substitutionally Doped with CO. *Journal of Physical Chemistry C*, **2015**, 119, 130-140 3.8 14
- 102 Light-induced catalyst and solvent-free high pressure synthesis of high density polyethylene at ambient temperature. *Macromolecular Rapid Communications*, **2014**, 35, 787-93 4.8 11
- 101 Carbon enters silica forming a cristobalite-type CO₂-SiO₂ solid solution. *Nature Communications*, **2014**, 5, 3761 17.4 21
- 100 Connecting the Water Phase Diagram to the Metastable Domain: High-Pressure Studies in the Supercooled Regime. *Journal of Physical Chemistry Letters*, **2014**, 5, 3804-9 6.4 18

99	Pressure-Induced Reactivity in the Emeraldine Salt and Base Forms of Polyaniline Probed by FTIR and Raman. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 27559-27566	3.8	17
98	Tuning the Aromaticity of s-Triazine in the Crystal Phase by Pressure. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 13764-13768	3.8	9
97	Pressure and Laser-Induced Reactivity in Crystalline s-Triazine. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 10284-10290	3.8	17
96	High Pressure Polymerization in a Confined Space: Conjugated Chain/Zeolite Nanocomposites. <i>Chemistry of Materials</i> , 2014 , 26, 2249-2255	9.6	41
95	Structure and Dynamics of Low-Density and High-Density Liquid Water at High Pressure. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 235-40	6.4	42
94	Probing high-pressure reactions in heterogeneous materials by Raman spectroscopy. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2014 , 229,	1	2
93	Probing high-pressure reactions in heterogeneous materials by Raman spectroscopy. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2014 , 229,	1	6
92	Picosecond optical parametric generator and amplifier for large temperature-jump. <i>Optics Express</i> , 2014 , 22, 30047-52	3.3	2
91	Materials Under Extreme Conditions 2014 ,		25
90	High-pressure chemistry of red phosphorus and water under near-UV irradiation. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 2313-7	16.4	34
89	High-pressure synthesis of a polyethylene/zeolite nano-composite material. <i>Nature Communications</i> , 2013 , 4, 1557	17.4	54
88	High-Pressure Optical Properties and Chemical Stability of Picene. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 5343-5351	3.8	29
87	Photoinduced Reactivity of Red Phosphorus and Ethanol at High Pressure. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 13129-13135	3.8	11
86	High-Pressure Chemistry of Red Phosphorus and Water under Near-UV Irradiation. <i>Angewandte Chemie</i> , 2013 , 125, 2369-2373	3.6	8
85	High-Pressure Photoinduced Reactivity of CH ₃ OH and CD ₃ OH. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 2108-2115	3.8	13
84	HOMO-LUMO transitions in solvated and crystalline picene. <i>Journal of Chemical Physics</i> , 2012 , 137, 224506	9.9	15
83	From simple to complex and backwards. Chemical reactions under very high pressure. <i>Chemical Physics</i> , 2012 , 398, 262-268	2.3	24
82	Partially collapsed cristobalite structure in the non molecular phase V in CO ₂ . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 5176-9	11.5	54

81	The role of high-pressure in the reactivity of simple molecules: implications in prebiotic chemistry. <i>Rendiconti Lincei</i> , 2011 , 22, 385-393	1.7	
80	High-pressure reactivity of clathrate hydrates by two-photon dissociation of water. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 1264-75	3.6	25
79	Changing the dissociative character of the lowest excited state of ethanol by pressure. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 15236-40	3.4	8
78	High-pressure reactivity of L,L-lactide. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 2173-84	3.4	10
77	Pressure-induced fluorescence of pyridine. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 12051-8	3.4	21
76	Structure and reactivity of pyridine crystal under pressure. <i>Journal of Chemical Physics</i> , 2011 , 134, 204504-9	3.9	40
75	Equation of state and anharmonicity of carbon dioxide phase I up to 12 GPa and 800 K. <i>Journal of Chemical Physics</i> , 2010 , 133, 144501	3.9	23
74	Photoinduced reactivity of liquid ethanol at high pressure. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 15437-44	3.4	16
73	High-pressure vibrational properties of polyethylene. <i>Journal of Chemical Physics</i> , 2010 , 133, 204502	3.9	18
72	Nitromethane decomposition under high static pressure. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 9420-3	3.8	51
71	High-pressure photodissociation of water as a tool for hydrogen synthesis and fundamental chemistry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 11454-9	11.5	49
70	Spectroscopy and monitoring of high pressure phenomena. <i>Journal of Molecular Structure</i> , 2009 , 924-926, 2-8	3.4	3
69	Pressure induced reactivity of solid CO by FTIR studies. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 6652-60	3.4	34
68	Crystalline indole at high pressure: chemical stability, electronic, and vibrational properties. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 13526-35	3.4	12
67	High-pressure reactivity of model hydrocarbons driven by near-UV photodissociation of water. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 14640-7	3.4	23
66	Extended infrared absorption spectroscopy study of the magnetic properties of solid oxygen at high-pressure and low-temperature. <i>Physical Review B</i> , 2008 , 77,	3.3	11
65	Crystal structure of nitromethane up to the reaction threshold pressure. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 1095-103	3.4	55
64	Role of excited electronic states in the high-pressure amorphization of benzene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 7658-63	11.5	52

63	Constraining molecules at the closest approach: chemistry at high pressure. <i>Chemical Society Reviews</i> , 2007 , 36, 869-80	58.5	107
62	Triggering dynamics of the high-pressure benzene amorphization. <i>Nature Materials</i> , 2007 , 6, 39-43	27	174
61	Dimerization and polymerization of isoprene at high pressures. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 3910-7	3.4	32
60	On the epsilon-zeta transition of nitrogen. <i>Journal of Chemical Physics</i> , 2006 , 124, 116102	3.9	19
59	Infrared study of high-pressure molecular phases of carbon dioxide. <i>Low Temperature Physics</i> , 2006 , 32, 1067-1071	0.7	4
58	Amorphous silica-like carbon dioxide. <i>Nature</i> , 2006 , 441, 857-60	50.4	138
57	High-pressure and high-temperature equation of state and phase diagram of solid benzene. <i>Physical Review B</i> , 2005 , 72,	3.3	113
56	High-pressure reactivity of propene. <i>Journal of Chemical Physics</i> , 2005 , 123, 194510	3.9	23
55	Pressure-induced polymerization in solid ethylene. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 21658-63	3.4	74
54	Chemical Reactions at Very High Pressure. <i>Advances in Chemical Physics</i> , 2005 , 105-242		30
53	Pressure dependence of intersubband transitions in HgTe/Hg _{0.3} Cd _{0.7} Te superlattices. <i>Journal of Electronic Materials</i> , 2005 , 34, 811-814	1.9	1
52	Linear carbon dioxide in the high-pressure high-temperature crystalline phase IV. <i>Physical Review Letters</i> , 2004 , 93, 205503	7.4	38
51	High-pressure synthesis of crystalline polyethylene using optical catalysis. <i>Nature Materials</i> , 2004 , 3, 470-5	27	99
50	Laser-assisted high-pressure chemical reactions. <i>Accounts of Chemical Research</i> , 2004 , 37, 95-101	24.3	69
49	High-pressure polymerization of phenylacetylene and of the benzene and acetylene moieties. <i>Journal of Raman Spectroscopy</i> , 2003 , 34, 557-566	2.3	44
48	Phase diagram and crystal phases of trans-1,3 butadiene probed by FTIR and Raman spectroscopy. <i>Chemical Physics Letters</i> , 2003 , 367, 186-192	2.5	11
47	Molecules under extreme conditions: Chemical reactions at high pressure. <i>Physical Chemistry Chemical Physics</i> , 2003 , 5, 1951	3.6	99
46	High-pressure photochemistry of furane crystal. <i>Journal of Chemical Physics</i> , 2003 , 118, 8321-8325	3.9	30

45	The high-pressure chemistry of butadiene crystal. <i>Journal of Chemical Physics</i> , 2003 , 118, 1815-1820	3.9	34
44	High pressure reactivity of solid furan probed by infrared and Raman spectroscopy. <i>Journal of Chemical Physics</i> , 2003 , 118, 1499-1506	3.9	43
43	High pressure photoinduced ring opening of benzene. <i>Physical Review Letters</i> , 2002 , 88, 085505	7.4	107
42	High pressure reactivity of solid benzene probed by infrared spectroscopy. <i>Journal of Chemical Physics</i> , 2002 , 116, 2928-2935	3.9	121
41	Laser-induced selectivity for dimerization versus polymerization of butadiene under pressure. <i>Science</i> , 2002 , 295, 2058-60	33.3	115
40	Excitation of crystalline all-trans retinal under pressure. <i>Physical Chemistry Chemical Physics</i> , 2002 , 4, 5761-5767	3.6	8
39	IR Study of the Pressure Induced Solid State DI- and Polymerization in 1,3-butadiene. <i>High Pressure Research</i> , 2002 , 22, 507-510	1.6	6
38	FTIR Study of Electronic Transitions in Solid Oxygen at High Pressure and Low Temperature. <i>Journal of Low Temperature Physics</i> , 2001 , 122, 323-330	1.3	4
37	Antiferromagnetism in the high-pressure phases of solid oxygen: Low-energy electronic transitions. <i>Physical Review B</i> , 2001 , 64,	3.3	31
36	Spectroscopic study of the β phase of solid oxygen. <i>Physical Review B</i> , 2001 , 63,	3.3	33
35	High pressure crystal phases of benzene probed by infrared spectroscopy. <i>Journal of Chemical Physics</i> , 2001 , 115, 3742-3749	3.9	36
34	High-pressure phases of solid nitrogen by Raman and infrared spectroscopy. <i>Journal of Chemical Physics</i> , 2000 , 112, 8522-8529	3.9	86
33	Antiferromagnetic order in the β phase of solid oxygen. <i>Physical Review B</i> , 2000 , 62, R3604-R3607	3.3	20
32	Fourier transform infrared study of the pressure and laser induced polymerization of solid acetylene. <i>Journal of Chemical Physics</i> , 2000 , 113, 5991-6000	3.9	86
31	The β Phase of Solid Oxygen: Evidence of an O ₄ Molecule Lattice. <i>Physical Review Letters</i> , 1999 , 83, 4093-4096	4.0	143
30	High-pressure and low-temperature infrared study of solid oxygen: Evidence of a new crystal structure. <i>Physical Review B</i> , 1999 , 60, 6179-6182	3.3	17
29	Spectroscopic studies of the Ar(H ₂) ₂ compound crystal at high pressure and low temperatures. <i>Physical Review B</i> , 1999 , 60, 6502-6512	3.3	21
28	Extended spectroscopic studies of Ar(H ₂) ₂ at high pressure and low temperature. <i>Physica B: Condensed Matter</i> , 1999 , 265, 39-48	2.8	2

27	Intermolecular interactions in the β phase of solid oxygen studied by infrared spectroscopy. <i>Physica B: Condensed Matter</i> , 1999 , 265, 49-53	2.8	13
26	Infrared and Raman studies on high pressure phases of solid N ₂ : An intermediate structural modification between β and γ phases. <i>Journal of Chemical Physics</i> , 1998 , 108, 6849-6856	3.9	33
25	Study of the energy level scheme of under pressure. <i>Journal of Physics Condensed Matter</i> , 1998 , 10, 9329-9342	3.4	11
24	High-pressure infrared study of solid methane: Phase diagram up to 30 GPa. <i>Physical Review B</i> , 1997 , 55, 14800-14809	3.3	64
23	Spectroscopy of some ices of astrophysical interest: SO ₂ , N ₂ and N ₂ : CH ₄ mixtures. <i>Planetary and Space Science</i> , 1996 , 44, 973-986	2	34
22	High-resolution infrared study of the translational lattice modes in β -N ₂ single crystals. <i>Journal of Chemical Physics</i> , 1996 , 104, 4365-4370	3.9	8
21	Vibrational relaxation in disordered 1,4-dihalobenzenes. <i>Journal of Chemical Physics</i> , 1995 , 102, 6653-6659	3.9	6
20	High pressure crystal phases of solid CH ₄ probed by Fourier transform infrared spectroscopy. <i>Journal of Chemical Physics</i> , 1995 , 103, 1353-1360	3.9	45
19	On the vibrational assignment of fullerene C ₆₀ . <i>Journal of Chemical Physics</i> , 1994 , 101, 11079-11081	3.9	46
18	Vibron dynamics in naphthalene crystal. <i>Journal of Chemical Physics</i> , 1994 , 100, 7938-7944	3.9	11
17	High resolution infrared spectra of the β vibron in natural sulfur and in the isotopically pure ³² S crystal. <i>Journal of Chemical Physics</i> , 1994 , 100, 912-916	3.9	8
16	Vibrational relaxation of lattice phonons in CS ₂ crystal. <i>Chemical Physics Letters</i> , 1994 , 222, 239-244	2.5	6
15	Infrared Spectrum of Two Fullerene Derivatives: C ₆₀ O and C ₆₁ H ₂ . <i>The Journal of Physical Chemistry</i> , 1994 , 98, 9966-9971		30
14	The far-infrared spectrum of crystalline fullerene C ₆₀ . <i>The Journal of Physical Chemistry</i> , 1993 , 97, 10580-10584		19
13	The spectroscopy and relaxation dynamics of three-phonon bound states in crystal CO ₂ . <i>Journal of Chemical Physics</i> , 1993 , 98, 164-177	3.9	11
12	Relaxation processes of the infrared-active lattice phonons of crystalline CO ₂ . <i>Physical Review B</i> , 1992 , 45, 5244-5250	3.3	17
11	Vibrational relaxation of three-phonon bound states in crystal CO ₂ . <i>Journal of Molecular Structure</i> , 1992 , 266, 165-170	3.4	
10	Measurement of the third-order non-resonant susceptibility of phthalate ion in solution and in a C ₆ H ₄ COOH \cdot COOK crystal. <i>Journal of Luminescence</i> , 1992 , 53, 541-545	3.8	2

9	Multiphoton absorption in crystalline biphenylene. <i>Journal of Luminescence</i> , 1992 , 53, 529-532	3.8	3
8	Triphonons in crystal CO ₂ . <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1991 , 157, 273-282	2.3	6
7	Vibrational relaxation of Davydov components of the 940 cm ⁻¹ mode in KClO ₄ crystal. <i>Journal of Molecular Structure</i> , 1990 , 219, 43-48	3.4	6
6	High overtones investigation of non-equivalent C-H bonds in pyridine and 2,6-lutidine by thermal lensing spectroscopy. <i>Journal of Molecular Structure</i> , 1990 , 218, 117-122	3.4	
5	Two-photon spectroscopy of antiaromatic molecules: the case of biphenylene. <i>Chemical Physics Letters</i> , 1990 , 175, 413-418	2.5	12
4	Lower excited electronic states of sulfur (S ₈): A two-photon study by the thermal lensing method. <i>Chemical Physics Letters</i> , 1988 , 151, 236-242	2.5	2
3	Two-photon absorption of liquid pyridine: a study using thermal lensing and cars spectroscopy.. <i>Journal of Molecular Structure</i> , 1988 , 175, 147-152	3.4	4
2	The two-photon spectrum of liquid pyridine by thermal lensing techniques. <i>Chemical Physics Letters</i> , 1987 , 141, 417-422	2.5	11
1	Single-Bonded Cubic AsN from High-Pressure and High-Temperature Chemical Reactivity of Arsenic and Nitrogen. <i>Angewandte Chemie</i> , 2021, 14191	3.6	0