

Renato Torre

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Perspectives and recent advances in super-resolution spectroscopy: Stochastic and disordered-based approaches. <i>Applied Physics Letters</i> , 2022, 120, .	1.5	6
2	Exploring the Organometallic Route to Molecular Spin Qubits: The [CpTi(cot)] Case. <i>Angewandte Chemie</i> , 2021, 133, 2620-2625.	1.6	21
3	Exploring the Organometallic Route to Molecular Spin Qubits: The [CpTi(cot)] Case. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 2588-2593.	7.2	38
4	Hard X-ray transient grating spectroscopy on bismuth germanate. <i>Nature Photonics</i> , 2021, 15, 499-503.	15.6	31
5	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.	2.3	1
6	Temperature Dependence of Spin-Phonon Coupling in [VO(acac) ₂]: A Computational and Spectroscopic Study. <i>Journal of Physical Chemistry C</i> , 2021, 125, 22100-22110.	1.5	15
7	Spectral super-resolution spectroscopy using a random laser. <i>Nature Photonics</i> , 2020, 14, 177-182.	15.6	62
8	Pressure Effects on Water Dynamics by Time-Resolved Optical Kerr Effect. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 3063-3068.	2.1	8
9	First-Principles Investigation of Spin-Phonon Coupling in Vanadium-Based Molecular Spin Quantum Bits. <i>Inorganic Chemistry</i> , 2019, 58, 10260-10268.	1.9	59
10	A non-traditional approach to cryopreservation by ultra-rapid cooling for human mesenchymal stem cells. <i>PLoS ONE</i> , 2019, 14, e0220055.	1.1	5
11	Probing Globular Protein Self-Assembling Dynamics by Heterodyne Transient Grating Experiments. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 405.	1.3	4
12	Nucleation in Aqueous KCl Solutions Induced by Laser Pulses. <i>Proceedings (mdpi)</i> , 2019, 26, 30.	0.2	0
13	Spin Dynamics and Phonons, Insights into Potential Molecular Qubits. <i>Proceedings (mdpi)</i> , 2019, 26, 46.	0.2	0
14	Structural Effects on the Spin Dynamics of Potential Molecular Qubits. <i>Inorganic Chemistry</i> , 2018, 57, 731-740.	1.9	86
15	THz time-domain spectroscopic investigations of thin films. <i>Measurement: Journal of the International Measurement Confederation</i> , 2018, 118, 282-288.	2.5	31
16	Remote control of liquid crystal elastomer random laser using external stimuli. <i>Applied Physics Letters</i> , 2018, 113, .	1.5	15
17	Scaling Up Electronic Spin Qubits into a Three-Dimensional Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2018, 140, 12090-12101.	6.6	122
18	Time-domain THz spectroscopy of the characteristics of hydroxyapatite provides a signature of heating in bone tissue. <i>PLoS ONE</i> , 2018, 13, e0201745.	1.1	3

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19	Spin Dynamics and Low Energy Vibrations: Insights from Vanadyl-Based Potential Molecular Qubits. <i>Journal of the American Chemical Society</i> , 2017, 139, 4338-4341.	6.6	114
20	THz dynamics of nanoconfined water by ultrafast optical spectroscopy. <i>Measurement Science and Technology</i> , 2017, 28, 014009.	1.4	5
21	Thin layered drawing media probed by THz time-domain spectroscopy. <i>Analyst, The</i> , 2017, 142, 42-47.	1.7	18
22	Second-harmonic generation from plasmon polariton excitation on silver diffraction gratings: comparisons of theory and experiment. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2017, 34, 27.	0.9	12
23	Drawing materials studied by THz spectroscopy. <i>Acta IMEKO (2012)</i> , 2017, 6, 12.	0.4	8
24	Vibrational Spectroscopy and Dynamics of Water. <i>Chemical Reviews</i> , 2016, 116, 7590-7607.	23.0	300
25	Confinement, entropic effects and hydrogen bond network fluctuations of water in Nafion membrane. <i>Journal of Molecular Liquids</i> , 2016, 219, 1161-1164.	2.3	3
26	An ultra-rapid cryo-technique for complex organisms. <i>Cryobiology</i> , 2015, 71, 391-397.	0.3	5
27	Supercooling and freezing processes in nanoconfined water by time-resolved optical Kerr effect spectroscopy. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 194107.	0.7	12
28	Frequency-Comb-Assisted Terahertz Quantum Cascade Laser Spectroscopy. <i>Physical Review X</i> , 2014, 4, .	2.8	52
29	Optical Kerr effect of liquid and supercooled water: The experimental and data analysis perspective. <i>Journal of Chemical Physics</i> , 2014, 141, 084507.	1.2	21
30	Water in a polymeric electrolyte membrane: Sorption/desorption and freezing phenomena. <i>Journal of Membrane Science</i> , 2014, 453, 419-424.	4.1	21
31	Evidence of two distinct local structures of water from ambient to supercooled conditions. <i>Nature Communications</i> , 2013, 4, 2401.	5.8	158
32	A comparative study on bulk and nanoconfined water by time-resolved optical Kerr effect spectroscopy. <i>Faraday Discussions</i> , 2013, 167, 293.	1.6	31
33	Observation of nanophase segregation in LiCl aqueous solutions from transient grating experiments. <i>Journal of Chemical Physics</i> , 2013, 139, 044501.	1.2	17
34	THz-comb-assisted molecular spectroscopy. , 2013, , .		0
35	THz spectroscopy with an absolute frequency scale by a QCL phase-locked to a THz frequency comb. , 2013, , .		2
36	Influence of inorganic nanoparticles on the glass transitions of polyurea elastomers. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013, 210, 2320-2327.	0.8	9

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37	Phase-locking a THz quantum cascade laser to a THz comb through an all-optical beating. , 2012, , .		0
38	Evidence of slow acoustic surface waves on a 1D phononic surface by a pulsed laser spectroscopic technique resolved in time and space. Europhysics Letters, 2012, 97, 44010.	0.7	7
39	Phase-locking to a free-space terahertz comb for metrological-grade terahertz lasers. Nature Communications, 2012, 3, 1040.	5.8	105
40	Does there exist an anomalous sound dispersion in supercooled water?. Philosophical Magazine, 2011, 91, 1796-1800.	0.7	16
41	Propagation of acoustic surface waves on a phononic surface investigated by transient reflecting grating spectroscopy. Journal of the Mechanics and Physics of Solids, 2011, 59, 2370-2381.	2.3	20
42	Polymer thermal and acoustic properties using heterodyne detected transient grating technique. Journal of Polymer Science, Part B: Polymer Physics, 2011, 49, 685-690.	2.4	7
43	The low frequency dynamics of supercooled LiBr, 6H ₂ O. Journal of Chemical Physics, 2011, 134, 034514.	1.2	8
44	Acoustic phenomena and hydrodynamic flow in a water filled nano-porous glass studied by transient grating spectroscopy. Journal of Physics: Conference Series, 2010, 214, 012032.	0.3	3
45	Acoustic, thermal and flow processes in a water filled nanoporous glass by time-resolved optical spectroscopy. Journal of the Mechanics and Physics of Solids, 2010, 58, 1302-1317.	2.3	17
46	Monte Carlo calculations of spectral features in random lasing. Journal of Nanophotonics, 2010, 4, 041550.	0.4	16
47	Temperature of maximum density of water in hydrophilic confinement measured by transient grating spectroscopy. Europhysics Letters, 2010, 92, 26005.	0.7	16
48	Inverse freezing in molecular binary mixtures of β -cyclodextrin and 4-methylpyridine. Physical Chemistry Chemical Physics, 2010, 12, 7026.	1.3	2
49	The low frequency phonons dynamics in supercooled LiCl, 6H ₂ O. Journal of Chemical Physics, 2009, 131, 124504.	1.2	21
50	Structure and Acoustic Properties of Hydrated Nafion Membranes. Journal of Physical Chemistry B, 2009, 113, 10121-10127.	1.2	9
51	Optical kerr effect measurements on supercooled water: The experimental perspective. Journal of Physics: Conference Series, 2009, 177, 012009.	0.3	6
52	Acoustic phenomena in porous media studied by transient grating spectroscopy: A critical test of the Biot theory. Europhysics Letters, 2008, 81, 58003.	0.7	12
53	Time-Resolved Spectroscopy in Complex Liquids. , 2008, , .		10
54	Optical Kerr Effect Experiments on Complex Liquids. , 2008, , 73-127.		6

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55	Transient Grating Experiments in Glass-Former Liquids. , 2008, , 129-184.		3
56	Low-temperature supercooled phase of β -cyclodextrin:4-methylpyridine:water mixture. Journal of Physics Condensed Matter, 2007, 19, 205108.	0.7	3
57	Transient grating study of m-toluidine from 330 to 190 K. Journal of Physics Condensed Matter, 2007, 19, 205146.	0.7	4
58	Analysis of a heterodyne-detected transient-grating experiment on a molecular supercooled liquid. II. Application to β -cyclodextrin:4-methylpyridine:water mixture. Physical Review E, 2007, 76, 011510.	0.8	9
59	Analysis of a heterodyne-detected transient-grating experiment on a molecular supercooled liquid. I. Basic formulation of the problem. Physical Review E, 2007, 76, 011509.	0.8	6
60	Percolation transition in water- α -decane microemulsion investigated by transient grating measurement. Philosophical Magazine, 2007, 87, 759-767.	0.7	1
61	Chaotic behavior of a random laser with static disorder. Physical Review A, 2007, 76, .	1.0	114
62	A real-time acquisition system for pump-probe spectroscopy. Philosophical Magazine, 2007, 87, 731-740.	0.7	11
63	Transient grating experiments on CCl ₄ -filled porous glasses. Philosophical Magazine, 2007, 87, 715-722.	0.7	5
64	Acoustic phenomena in filled porous glasses by time-resolved spectroscopy. European Physical Journal: Special Topics, 2007, 141, 133-136.	1.2	6
65	Supercooled water relaxation dynamics probed with heterodyne transient grating experiments. Physical Review E, 2006, 74, 031502.	0.8	33
66	Characterization of the second-harmonic response of a silver-air interface. New Journal of Physics, 2005, 7, 154-154.	1.2	33
67	Transient grating experiment on supercooled water. Philosophical Magazine, 2004, 84, 1471-1479.	0.7	12
68	Structural relaxation in supercooled water by time-resolved spectroscopy. Nature, 2004, 428, 296-299.	13.7	239
69	Heterodyne detected transient gratings in supercooled molecular liquids. European Physical Journal B, 2004, 39, 169-197.	0.6	15
70	Amplified Extended Modes in Random Lasers. Physical Review Letters, 2004, 93, 053903.	2.9	258
71	Structural Relaxation in Supercooled Water by Time-Resolved Spectroscopy.. ChemInform, 2004, 35, no.	0.1	0
72	Time-resolved optical Kerr effect experiments on supercooled benzene and test of mode-coupling theory. Philosophical Magazine, 2004, 84, 1491-1498.	0.7	22

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73	Experiments and numerical simulations on lasing in random media. , 2004, , .		0
74	Experimental studies of the ortho-toluidine glass transition. Physical Review E, 2003, 67, 021505.	0.8	20
75	Nonequilibrium thermodynamic description of the coupling between structural and entropic modes in supercooled liquids. Physical Review E, 2003, 67, 015102.	0.8	11
76	Frequency and time resolved light scattering on longitudinal phonons in molecular supercooled liquids. Journal of Physics Condensed Matter, 2003, 15, S825-S834.	0.7	9
77	Structural and entropic modes in supercooled liquids: experimental and theoretical investigation. Journal of Physics Condensed Matter, 2003, 15, S1181-S1192.	0.7	3
78	Relaxation processes in an epoxy resin studied by time-resolved optical Kerr effect. Physical Review E, 2002, 66, 011502.	0.8	10
79	Fast dynamics of a fragile glass former by time-resolved spectroscopy. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2002, 82, 541-551.	0.6	11
80	Structural relaxation process in glass-forming liquids: A comparison between the optical Kerr effect and dielectric spectroscopy. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2002, 82, 553-560.	0.6	3
81	Translation-rotation coupling in transient grating experiments: Theoretical and experimental evidences. Europhysics Letters, 2001, 56, 407-413.	0.7	32
82	Acoustic and relaxation processes in supercooled orthoterphenyl by optical-heterodyne transient grating experiment. Physical Review E, 2001, 64, 061504.	0.8	47
83	Time-resolved optical Kerr effect on a fragile glass-forming liquid: Test of different mode coupling theory aspects. Europhysics Letters, 2000, 52, 324-329.	0.7	42
84	Diffusive and oscillatory dynamics of liquid iodobenzene measured by femtosecond optical Kerr effect. Journal of Chemical Physics, 1999, 110, 8653-8662.	1.2	53
85	Spectral characterization of fluorescent 5-iodoacetamidotetramethylrhodamine and its N-acetylcysteine derivative. Physical Chemistry Chemical Physics, 1999, 1, 4571-4582.	1.3	10
86	Time-resolved optical Kerr effect in m-toluidine: A test of mode-coupling theory predictions. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1999, 79, 1897-1905.	0.6	11
87	Effective Shape and Dynamics of Chlorophyll a in a Nematic Liquid Crystal. Journal of Physical Chemistry B, 1998, 102, 1624-1631.	1.2	11
88	Time-resolved optical Kerr effect in a fragile glass-forming liquid, salol. Physical Review E, 1998, 57, 1912-1920.	0.8	53
89	Collective and single-particle dynamics near the isotropic-nematic phase transition. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1998, 77, 645-653.	0.6	18
90	Observations of second-harmonic generation from randomly rough metal surfaces. Physical Review B, 1997, 55, 7985-7992.	1.1	39

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91	Second-harmonic generation from a strongly rough metal surface. Optics Communications, 1997, 138, 341-344.	1.0	28
92	Observations of backscattering effects in second-harmonic generation from a weakly rough metal surface. Optics Letters, 1996, 21, 1738.	1.7	33
93	Photodissociation Dynamics of the Iodine ⁺ Arene Charge-Transfer Complex. The Journal of Physical Chemistry, 1996, 100, 7822-7831.	2.9	32
94	Time Resolved Fluorescence of Dye Solutions in Nematic Liquid Crystals. Molecular Crystals and Liquid Crystals, 1996, 282, 461-472.	0.3	11
95	Light scattering studies of high-frequency relaxation processes in organic glass formers. Journal of Physics Condensed Matter, 1996, 8, 9593-9598.	0.7	6
96	Travelling-wave parametric conversion of microjoule pulses with LBO. Optics Communications, 1995, 118, 353-359.	1.0	12
97	Molecular dynamics of β -carotene in solution by resonance enhanced optical Kerr effect. Journal of Chemical Physics, 1995, 102, 9537-9543.	1.2	10
98	Orientalional Dynamics in the Isotropic Phase of a Nematic Mixture: Subpicosecond Time Resolved Optical Kerr Effect Experiments on ZLI-1167 Liquid Crystal. Molecular Crystals and Liquid Crystals, 1995, 262, 391-402.	0.3	20
99	Modulation of the Optical Second Harmonic Generation in Ferroelectric Liquid Crystals. Molecular Crystals and Liquid Crystals, 1994, 251, 101-109.	0.3	4
100	Optical second-harmonic generation during switching in a ferroelectric liquid-crystal cell. Physical Review E, 1994, 50, 3766-3773.	0.8	10
101	Pre-transitional effects in the liquid [*] plastic phase transition of p-terphenyl. Chemical Physics Letters, 1993, 212, 90-95.	1.2	18
102	Orientalional dynamics on glassformer 2 [Ca(NO ₃) ₂] ₂ ·3[KNO ₃]: A study by transient optical Kerr effect. Journal of Chemical Physics, 1993, 98, 4892-4896.	1.2	17
103	Optical second harmonic generation in SmC* phase with polarization reversal. Ferroelectrics, 1993, 148, 349-356.	0.3	1
104	Influence of local liquid structure on orientational dynamics: isotropic phase of liquid crystals. The Journal of Physical Chemistry, 1993, 97, 9478-9487.	2.9	72
105	<title>Ultrafast dynamics of nematic liquid crystals in the isotropic phase</title> . , 1993, , .		0
106	The dynamics of succinonitrile in the plastic phase by subpicosecond time [*] resolved optical Kerr effect. Journal of Chemical Physics, 1992, 96, 110-115.	1.2	24
107	Resonance-enhanced time-resolved optical Kerr effect of β -carotene in solution. Optics Letters, 1992, 17, 775.	1.7	8
108	Nanosecond time scale dynamics of pseudo-nematic domains in the isotropic phase of liquid crystals. Chemical Physics Letters, 1992, 194, 213-216.	1.2	70

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109	Molecular dynamics of β -carotene in solution measured by subpicosecond transient optical Kerr effect. Chemical Physics Letters, 1992, 193, 23-29.	1.2	17
110	The CARS excitation profile at the MnO^{2+} ion doped in $KClO_4$. Chemical Physics Letters, 1992, 199, 417-422.	1.2	4
111	Diagrammatic representation of the third-order polarization in transient CARS. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1991, 13, 809-819.	0.4	1
112	Calculation of the signal time-profile in transient CARS experiments. Applied Physics B, Photophysics and Laser Chemistry, 1991, 52, 132-137.	1.5	4
113	Picosecond measurements of relaxation of internal modes in crystalline benzene as a function of temperature. Journal of Chemical Physics, 1990, 93, 2967-2973.	1.2	14
114	Investigation of Relaxation Processes in Nanocomposites by Transient Grating Experiments. Materials Science Forum, 0, 714, 79-83.	0.3	3
115	Chaotic Behavior of Random Lasers. , 0, , 277-299.		0