

Giampiero Ruani

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128 papers	3,086 citations	31 h-index	50 g-index
135 ext. papers	3,298 ext. citations	4.5 avg, IF	4.54 L-index

#	Paper	IF	Citations
128	Structural and electronic properties of organo-halide lead perovskites: a combined IR-spectroscopy and ab initio molecular dynamics investigation. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 16137-44	3.6	195
127	Micro- and nanopatterning of spin-transition compounds into logical structures. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 8596-600	16.4	148
126	A transparent organic transistor structure for bidirectional stimulation and recording of primary neurons. <i>Nature Materials</i> , 2013 , 12, 672-80	27	124
125	Location of the low-energy 1Ag state in a polythiophene oligomer by two-photon absorption spectroscopy: alpha -sexithienyl. <i>Physical Review Letters</i> , 1992 , 68, 919-922	7.4	105
124	Infrared photoinduced absorption in the YBa ₂ Cu ₃ O _{7-δ} high T _c superconducting system. <i>Solid State Communications</i> , 1988 , 66, 487-490	1.6	100
123	Location of charge transfer states in α -sexithienyl determined by the electroabsorption technique. <i>Chemical Physics Letters</i> , 1995 , 232, 401-406	2.5	92
122	Thin deposits and patterning of room-temperature-switchable one-dimensional spin-crossover compounds. <i>Langmuir</i> , 2011 , 27, 4076-81	4	89
121	Jahn-teller dynamics in charge-ordered manganites from raman spectroscopy. <i>Physical Review Letters</i> , 2000 , 84, 4489-92	7.4	80
120	Third-order optical nonlinearity in polycondensed thiophene-based polymers and polysilane polymers. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1989 , 6, 753	1.7	78
119	Multi-modal sensing in spin crossover compounds. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 7836-7844	7.1	75
118	Graphene oxide doped polysulfone membrane adsorbers for the removal of organic contaminants from water. <i>Chemical Engineering Journal</i> , 2017 , 326, 130-140	14.7	69
117	Nanoimprint lithography for organic electronics. <i>Microelectronic Engineering</i> , 2002 , 61-62, 25-31	2.5	59
116	Light-induced oxygen incision of C ₆₀ . <i>Journal of the Chemical Society Chemical Communications</i> , 1993 , 220		58
115	Weak intrinsic charge transfer complexes: A new route for developing wide spectrum organic photovoltaic cells. <i>Journal of Chemical Physics</i> , 2002 , 116, 1713-1719	3.9	57
114	Solid-state dye PV cells using inverse opal TiO ₂ films. <i>Solar Energy Materials and Solar Cells</i> , 2005 , 87, 513-519	6.4	56
113	Nonlinear-optical response in polythiophene films using four-wave mixing techniques. <i>Optics Letters</i> , 1989 , 14, 1321-3	3	56
112	Spin polarised electrodes for organic light emitting diodes. <i>Organic Electronics</i> , 2004 , 5, 309-314	3.5	53

111	Evidence of strong electron-phonon coupling from infrared excited Raman scattering in the YBa ₂ Cu ₃ O _{7-y} superconducting system. <i>Solid State Communications</i> , 1989 , 70, 813-816	1.6	53
110	Long-Lived Photoinduced Polarons in Organohalide Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 3081-3086	6.4	45
109	Biofunctional Silk/Neuron Interfaces. <i>Advanced Functional Materials</i> , 2012 , 22, 1871-1884	15.6	45
108	Organic light emitting diodes with spin polarized electrodes. <i>Journal of Applied Physics</i> , 2003 , 93, 7682-7683	6.3	45
107	Organic light-emitting transistors with voltage-tunable lit area and full channel illumination. <i>Laser and Photonics Reviews</i> , 2013 , 7, 1011-1019	8.3	44
106	Optical properties of a low energy gap conducting polymer: Polydithieno[3,4-b:?,4?-d]thiophene. <i>Synthetic Metals</i> , 1989 , 28, 507-514	3.6	43
105	Electronic levels ordering in Pexithienyl. <i>Synthetic Metals</i> , 1993 , 54, 57-66	3.6	39
104	Vibrational Response of Methylammonium Lead Iodide: From Cation Dynamics to Phonon-Phonon Interactions. <i>ChemSusChem</i> , 2016 , 9, 2994-3004	8.3	38
103	Single-step preparation of inverse opal titania films by the doctor blade technique. <i>Solar Energy Materials and Solar Cells</i> , 2008 , 92, 537-542	6.4	35
102	Unusual polymerization in the Li ₄ C ₆₀ fulleride. <i>Physical Review B</i> , 2005 , 72,	3.3	35
101	Silver route to cuprate analogs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 1495-1500	11.5	34
100	A nanostructured conductive bio-composite of silk fibroin-single walled carbon nanotubes. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 1424-1431	7.3	31
99	Silk doped with a bio-modified dye as a viable platform for eco-friendly luminescent solar concentrators. <i>RSC Advances</i> , 2012 , 2, 8610	3.7	31
98	The polarized infrared and Raman spectra of P6 single crystal: An experimental and theoretical study. <i>Journal of Chemical Physics</i> , 2000 , 112, 5957-5969	3.9	31
97	Carbon nanotube networks patterned from aqueous solutions of latex bead carriers. <i>Journal of Materials Chemistry</i> , 2007 , 17, 3681		30
96	The dynamics of the internal phonons tris(quinolin-8-olato) aluminum(III) in crystalline Pphase. <i>Journal of Chemical Physics</i> , 2002 , 116, 798-813	3.9	30
95	Electronic and infrared properties of the Pexithienyl single crystal. <i>Synthetic Metals</i> , 1991 , 42, 2359-2363	3.6	30
94	Innovative multifunctional silk fibroin and hydrotalcite nanocomposites: a synergic effect of the components. <i>Biomacromolecules</i> , 2014 , 15, 158-68	6.9	29

93	Integration of a silk fibroin based film as a luminescent down-shifting layer in ITO-free organic solar cells. <i>RSC Advances</i> , 2014 , 4, 44815-44822	3.7	28
92	Optimised In ₂ S ₃ Thin Films Deposited by Spray Pyrolysis. <i>International Journal of Photoenergy</i> , 2012 , 2012, 1-7	2.1	28
91	3D Hierarchical Porous TiO ₂ Films from Colloidal Composite Fluidic Deposition. <i>Chemistry of Materials</i> , 2008 , 20, 7130-7135	9.6	28
90	Transparent manganite films as hole injectors for organic light emitting diodes. <i>Journal of Luminescence</i> , 2004 , 110, 384-388	3.8	26
89	Apex anharmonicity observed by Raman scattering in 18O substituted YBa ₂ Cu ₃ O _{6+x} . <i>Physica C: Superconductivity and Its Applications</i> , 1994 , 226, 101-105	1.3	26
88	Effect of different fabrication methods on the chemo-physical properties of silk fibroin films and on their interaction with neural cells. <i>RSC Advances</i> , 2016 , 6, 9304-9314	3.7	24
87	Micro-Raman and Resistance Measurements of Epitaxial La _{0.7} Sr _{0.3} MnO ₃ Films. <i>Physica Status Solidi (B): Basic Research</i> , 1999 , 215, 625-629	1.3	24
86	Efficient and Versatile Interconnection Layer by Solvent Treatment of PEDOT:PSS Interlayer for Air-Processed Organic Tandem Solar Cells. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1600770	4.6	23
85	Recovering metallicity in A ₄ C ₆₀ : The case of monomeric Li ₄ C ₆₀ . <i>Physical Review B</i> , 2007 , 75,	3.3	22
84	Infrared-excited Raman scattering and photoluminescence of deep intragap states in semiconducting YBa ₂ Cu ₃ O _{6+x} . <i>Physical Review B</i> , 1993 , 48, 16714-16721	3.3	22
83	N-type perylene-based organic semiconductors for functional neural interfacing. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 3850-3859	7.3	21
82	Low energy electronic excitations and Fano resonance in K doped C ₆₀ from Raman scattering excited at 1.16 eV. <i>Solid State Communications</i> , 1992 , 81, 257-260	1.6	21
81	Frequency variation of cubic susceptibility in the new conjugated polymers PTT and PDTB. <i>Synthetic Metals</i> , 1990 , 37, 223-229	3.6	20
80	Bio-doping of regenerated silk fibroin solution and films: a green route for biomanufacturing. <i>RSC Advances</i> , 2014 , 4, 33687-33694	3.7	19
79	Surface induces different crystal structures in a room temperature switchable spin crossover compound. <i>Dalton Transactions</i> , 2016 , 45, 134-43	4.3	18
78	Efficiency enhancement of P3HT:PCBM solar cells containing scattering Zn-Al hydrotalcite nanoparticles in the PEDOT:PSS layer. <i>Organic Photonics and Photovoltaics</i> , 2013 , 1, 1-10	5	18
77	Vibrational spectrum of C ₆₀ in the p-tert-butylcalix[8]arene(1:1)C ₆₀ complex. <i>Physical Review B</i> , 1997 , 55, 5566-5569	3.3	18
76	Raman scattering in ferromagnetic TDAE-C ₆₀ compared to TDAE-C ₇₀ . <i>Synthetic Metals</i> , 1993 , 56, 3050-3056	3.6	18

75	Transitions at $T > T_{cs}$ in underdoped crystals of $YBa_2Cu_3O_{7-x}$ observed by resonant Raman scattering. <i>Physical Review B</i> , 1997 , 55, 93-96	3.3	17
74	Template evaporation method for controlling anatase nanocrystal size in ordered macroporous TiO_2 . <i>Journal of Colloid and Interface Science</i> , 2005 , 290, 201-7	9.3	17
73	Polydopamine Nanoparticle-Coated Polysulfone Porous Granules as Adsorbents for Water Remediation. <i>ACS Omega</i> , 2019 , 4, 4839-4847	3.9	15
72	Organic-Inorganic Hybrid Spin-Valve: A Novel Approach to Spintronics. <i>Phase Transitions</i> , 2002 , 75, 1049-1058	1.5	15
71	Intedigitated p-n junction: a route to improve the efficiency in organic photovoltaic cells. <i>Synthetic Metals</i> , 2001 , 121, 1533-1534	3.6	15
70	Photoinduced charge transfer in complex architected films of C_{60} and donor-like molecules. <i>Synthetic Metals</i> , 1999 , 103, 2392-2394	3.6	15
69	Naturally functionalized silk as useful material for photonic applications. <i>Composites Part B: Engineering</i> , 2015 , 71, 152-158	10	14
68	Oxygen effect on photoluminescence of fullerite C_{60} thin films. <i>Synthetic Metals</i> , 1993 , 56, 3119-3124	3.6	14
67	K_4C_{60} is a zero-gap semiconductor - a resonant Raman study. <i>Physica C: Superconductivity and Its Applications</i> , 1994 , 235-240, 2477-2478	1.3	14
66	A Monte Carlo simulation of precipitation phenomena in a diamond lattice. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1984 , 50, 505-516		14
65	Preresonance Raman Spectrum of C_{76} . <i>The Journal of Physical Chemistry</i> , 1994 , 98, 7933-7935		13
64	Dependence of ir absorption in $YBa_2Cu_3O_{7-x}$ on the oxygen content. <i>Physica C: Superconductivity and Its Applications</i> , 1988 , 153-155, 645-646	1.3	13
63	Silk fibroin film from golden-yellow <i>Bombyx mori</i> is a biocomposite that contains lutein and promotes axonal growth of primary neurons. <i>Biopolymers</i> , 2016 , 105, 287-99	2.2	13
62	Highly Ordered Organic Ferroelectric DIPAB-Patterned Thin Films. <i>Langmuir</i> , 2017 , 33, 12859-12864	4	12
61	Selective MW-assisted surface chemical tailoring of hydrotalcites for fluorescent and biocompatible nanocomposites. <i>RSC Advances</i> , 2014 , 4, 11840	3.7	12
60	Direct deposition of magnetite thin films on organic semiconductors. <i>Applied Physics Letters</i> , 2008 , 93, 113305	3.4	12
59	Ultrathin β -Si films deposited by PECVD. <i>Thin Solid Films</i> , 2001 , 383, 7-10	2.2	12
58	APTES mediated modular modification of regenerated silk fibroin in a water solution. <i>RSC Advances</i> , 2015 , 5, 63401-63406	3.7	11

57	SILK.IT project: Silk Italian Technology for industrial biomanufacturing. <i>Composites Part B: Engineering</i> , 2015 , 68, 281-287	10	11
56	Toward Real Setting Applications of Organic and Perovskite Solar Cells: A Comparative Review. <i>Energy Technology</i> , 2021 , 9, 2000901	3.5	11
55	Keratin Film as Natural and Eco-Friendly Support for Organic Optoelectronic Devices. <i>Advanced Sustainable Systems</i> , 2019 , 3, 1900080	5.9	10
54	Efficient as-cast bulk-heterojunction solar cells based on a tert-butyl substituted methanofullerene acceptor. <i>Journal of Materials Chemistry</i> , 2011 , 21, 18308		10
53	Room temperature deposition of magnetite thin films on organic substrate. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 316, 410-412	2.8	10
52	Scattering of the vibrational frequencies of $^{13}\text{C}_{12}\text{C}_{60}$ A Raman spectroscopy and quantum chemical study. <i>Chemical Physics Letters</i> , 1993 , 211, 353-357	2.5	10
51	Highly conducting complexes based on Au (III)-Bis (1,3-dithio-2-thione-4,5-dithiolate). <i>Synthetic Metals</i> , 1991 , 42, 2355-2358	3.6	10
50	A potential J aggregate molecular system: crystal packing and optical properties of 4,4'-bis(2,3,4,5,6-pentafluorostyryl)stilbene. <i>Synthetic Metals</i> , 2003 , 139, 909-912	3.6	9
49	In-situ characterisation of the oxygen induced changes in a UHV grown organic light-emitting diode. <i>Synthetic Metals</i> , 1999 , 102, 1095-1096	3.6	9
48	Transient photomodulation spectroscopy of $\text{YBa}_2\text{Cu}_3\text{O}_{6+x}$ and La_2CuO_4 . <i>Physica C: Superconductivity and Its Applications</i> , 1989 , 162-164, 1109-1110	1.3	9
47	Linear and nonlinear spectroscopy of highly oriented thin films of hexithienyl: a model for polythiophene. <i>Synthetic Metals</i> , 1993 , 57, 4714-4721	3.6	8
46	Raman scattering and lattice dynamics of fullerides MxC_{60} . <i>Synthetic Metals</i> , 1994 , 64, 341-352	3.6	8
45	Dependence of the infrared absorption on oxygen deficiency in the $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ superconducting system. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1989 , 6, 409	1.7	8
44	Optical and electroemission properties of thin films of supermolecular anthracene-based rotaxanes. <i>Applied Surface Science</i> , 2001 , 175-176, 369-373	6.7	7
43	Photoinduced absorption in a series of thiophene based conjugated polymers. <i>Synthetic Metals</i> , 1991 , 41, 579-582	3.6	7
42	Excimer-like electroluminescence from thin films of switchable supermolecular anthracene-based rotaxanes. <i>Synthetic Metals</i> , 2001 , 122, 27-29	3.6	6
41	IR photoinduced absorption and FT-Raman of $\text{YBa}_2\text{Cu}_3\text{O}_{6+x}$: Further evidence of the role of the apex oxygen. <i>Physica C: Superconductivity and Its Applications</i> , 1991 , 185-189, 963-964	1.3	6
40	Electronic and phonon photoinduced I.R. absorptions in the $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ high Tc superconducting system. <i>Synthetic Metals</i> , 1989 , 29, 585-590	3.6	6

39	Magnetic keratin/hydroxalcalites sponges as potential scaffolds for tissue regeneration. <i>Applied Clay Science</i> , 2021 , 207, 106090	5.2	6
38	Mild and Effective Polymerization of Dopamine on Keratin Films for Innovative Photoactivable and Biocompatible Coated Materials. <i>Macromolecular Materials and Engineering</i> , 2018 , 303, 1700653	3.9	6
37	Fabrication and properties of non-isolating Alumina meso-foam. <i>Journal of Alloys and Compounds</i> , 2016 , 666, 101-107	5.7	5
36	Synthesis and investigation on processing-depending polarized fluorescence emission in thin-films of 2,2'-(2,2'-bithiophene)-5,5'-diyl)bis(5-octyl-4-phenyl-4H-thieno[2,3-c]pyrrol-6(5H)-one). <i>Journal of Materials Chemistry C</i> , 2017 , 5, 10320-10331	7.1	5
35	Single-wall carbon nanotubes prepared with different kinds of NiCo catalysts: Raman and optical spectrum analysis. <i>Carbon</i> , 2007 , 45, 196-202	10.4	5
34	New Polymeric Phase in Low-Doped Lithium Intercalated Fullerides. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2006 , 14, 391-400	1.8	5
33	The intramolecular vibrational dynamics of mer-tris(8-hydroxyquinoline)aluminium(III). <i>Synthetic Metals</i> , 2002 , 127, 247-250	3.6	5
32	New apex-oxygen related mode in PrBaCuO from ir-excited raman scattering. <i>Solid State Communications</i> , 1995 , 96, 653-657	1.6	5
31	Study of Photogenerated Nonlinear Excitations in a Polythiophene Model Compound: Hexithienyl. <i>Molecular Crystals and Liquid Crystals</i> , 1992 , 218, 113-116		5
30	Study of the Lowest Electronic States in a Polythiophene Oligomer, Hexithienyl, by One and Two-Photon Spectroscopy. <i>Molecular Crystals and Liquid Crystals</i> , 1992 , 217, 101-106		5
29	CDW suppression and photoinduced gap states in BaBiO ₃ . <i>Solid State Communications</i> , 1992 , 81, 419-423.	3.6	5
28	Improvement of Dye Solar Cell Efficiency by Photoanode Posttreatment. <i>International Journal of Photoenergy</i> , 2014 , 2014, 1-10	2.1	4
27	Photophysical properties of thin films and solid phase of switchable supermolecular anthracene-based rotaxanes. <i>Synthetic Metals</i> , 2001 , 122, 63-65	3.6	4
26	Evidence for electron-phonon coupling in vibrational spectrum of Bi ₂ Sr ₂ CaCu ₂ O ₈ single crystal. <i>Solid State Communications</i> , 1991 , 78, 979-982	1.6	4
25	Direct evidence of polaron resonance enhancement of cubic susceptibility in polythiophene. <i>Synthetic Metals</i> , 1991 , 43, 3197-3200	3.6	4
24	Core-shell graphene oxide-polymer hollow fibers as water filters with enhanced performance and selectivity. <i>Faraday Discussions</i> , 2021 , 227, 274-290	3.6	4
23	Silk Fibroin Based Technology for Industrial Biomanufacturing 2019 , 409-430		3
22	Electrically conductive gamma-alumina/amorphous carbon nano-composite foams. <i>Journal of Alloys and Compounds</i> , 2017 , 694, 921-928	5.7	3

21	Fabrication of ordered carbon nanotube structures by unconventional lithography. <i>Physica Status Solidi (B): Basic Research</i> , 2010 , 247, 877-883	1.3	3
20	Resonance Raman study of a low energy gap conjugated polymer: Polydithieno(3,4-b;3',4'-d)thiophene. <i>Synthetic Metals</i> , 1991 , 41, 1319-1322	3.6	3
19	Optical studies of BaBiO ₃ : A 3D charge density wave (CDW) insulator. <i>Synthetic Metals</i> , 1991 , 43, 3977-3980	3.6	3
18	Enhancing triboelectric performances of electrospun poly(vinylidene fluoride) with graphene oxide sheets. <i>Graphene Technology</i> , 2020 , 5, 49-57	1.8	3
17	New active meso-porous titania foam as size limiter for metal nanoparticles. <i>Journal of Alloys and Compounds</i> , 2018 , 735, 1611-1619	5.7	3
16	Low-Temperature Phase Transitions in a BiphenylBullerene Single Crystal: A Raman Study. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 4904-4911	3.4	2
15	Charge injection into OLEDs during operation studied by Electroabsorption screening. <i>Synthetic Metals</i> , 1999 , 102, 1075-1076	3.6	2
14	Evolution of the IR properties upon the oxygen vacancy ordering in YBa ₂ Cu ₃ O _{7-δ} (0 Synthetic Metals, 1989 , 29, 591-596	3.6	2
13	Third order nonlinear optical response in a thiophene substituted conjugated polyene: DTDMP. <i>Synthetic Metals</i> , 1991 , 43, 3177-3180	3.6	2
12	IR photoinduced absorption of the semiconducting modification of YBaCuO. <i>Physica C: Superconductivity and Its Applications</i> , 1988 , 153-155, 647-648	1.3	2
11	Effect of Different Ionic Surfactants on the Structural, Photophysical, and Morphological Properties of Water-Based P3HT:PCBM Nanoparticle Dispersions and Films. <i>Particle and Particle Systems Characterization</i> , 2021 , 38, 2000219	3.1	2
10	Anomalous raman scattering in the normal state of underdoped crystals of YBa ₂ Cu ₃ O _{7-x} . <i>Journal of Superconductivity and Novel Magnetism</i> , 1997 , 10, 405-409		1
9	Intragap-trapped-carriers enhancement of the low-temperature delayed phosphorescence in Alq ₃ . <i>Organic Electronics</i> , 2007 , 8, 256-261	3.5	1
8	Magnetic field-induced variations in Pr _{0.65} Ca _{0.35} MnO ₃ : Raman investigation. <i>Journal of Magnetism and Magnetic Materials</i> , 2004 , 272-276, 1751-1752	2.8	1
7	Raman and far infrared characterization of the simplest benzylic amide [2] catenane. <i>Synthetic Metals</i> , 1999 , 102, 1556-1557	3.6	1
6	Low energy neutral and charged excitations in hexithienyl: a polythiophene model compound. <i>Synthetic Metals</i> , 1993 , 57, 4991-4996	3.6	1
5	FT-Raman scattering at 1.16 eV in the YBa ₂ Cu ₃ O _{7-δ} superconducting system. <i>Physica C: Superconductivity and Its Applications</i> , 1989 , 162-164, 1103-1104	1.3	1
4	AC parallel local oxidation of silicon. <i>Nanoscale Advances</i> , 2019 , 1, 3887-3891	5.1	

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| 3 | The effect of metal ligands on the adsorption of metal coordination complexes on polystyrene nano-beads. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019 , 577, 541-547 | 5.1 |
| 2 | Biomaterials: Biofunctional Silk/Neuron Interfaces (Adv. Funct. Mater. 9/2012). <i>Advanced Functional Materials</i> , 2012 , 22, 1870-1870 | 15.6 |
| 1 | Evidence of charge localization from photoinduced infrared absorption in BaBiO ₃ . <i>Bulletin of Materials Science</i> , 1991 , 14, 533-538 | 1.7 |