

Giampiero Ruani

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.

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	Toward Real Setting Applications of Organic and Perovskite Solar Cells: A Comparative Review. <i>Energy Technology</i> , 2021 , 9, 2000901	3.5	11
127	Magnetic keratin/hydrotalcites sponges as potential scaffolds for tissue regeneration. <i>Applied Clay Science</i> , 2021 , 207, 106090	5.2	6
126	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
125	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
124	Enhancing triboelectric performances of electrospun poly(vinylidene fluoride) with graphene oxide sheets. <i>Graphene Technology</i> , 2020 , 5, 49-57	1.8	3
123	AC parallel local oxidation of silicon. <i>Nanoscale Advances</i> , 2019 , 1, 3887-3891	5.1	
122	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
121	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	
120	Polydopamine Nanoparticle-Coated Polysulfone Porous Granules as Adsorbents for Water Remediation. <i>ACS Omega</i> , 2019 , 4, 4839-4847	3.9	15
119	Silk Fibroin Based Technology for Industrial Biomanufacturing 2019 , 409-430		3
118	Keratin Film as Natural and Eco-Friendly Support for Organic Optoelectronic Devices. <i>Advanced Sustainable Systems</i> , 2019 , 3, 1900080	5.9	10
117	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
116	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
115	Long-Lived Photoinduced Polarons in Organohalide Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 3081-3086	6.4	45
114	Graphene oxide doped polysulfone membrane adsorbents for the removal of organic contaminants from water. <i>Chemical Engineering Journal</i> , 2017 , 326, 130-140	14.7	69
113	Highly Ordered Organic Ferroelectric DIPAB-Patterned Thin Films. <i>Langmuir</i> , 2017 , 33, 12859-12864	4	12
112	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

111	Electrically conductive gamma-alumina/amorphous carbon nano-composite foams. <i>Journal of Alloys and Compounds</i> , 2017 , 694, 921-928	5.7	3
110	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
109	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
108	Surface induces different crystal structures in a room temperature switchable spin crossover compound. <i>Dalton Transactions</i> , 2016 , 45, 134-43	4.3	18
107	Fabrication and properties of non-isolating alumina meso-foam. <i>Journal of Alloys and Compounds</i> , 2016 , 666, 101-107	5.7	5
106	Silk fibroin film from golden-yellow Bombyx mori is a biocomposite that contains lutein and promotes axonal growth of primary neurons. <i>Biopolymers</i> , 2016 , 105, 287-99	2.2	13
105	Vibrational Response of Methylammonium Lead Iodide: From Cation Dynamics to Phonon-Phonon Interactions. <i>ChemSusChem</i> , 2016 , 9, 2994-3004	8.3	38
104	APTES mediated modular modification of regenerated silk fibroin in a water solution. <i>RSC Advances</i> , 2015 , 5, 63401-63406	3.7	11
103	Naturally functionalized silk as useful material for photonic applications. <i>Composites Part B: Engineering</i> , 2015 , 71, 152-158	10	14
102	SILK.IT project: Silk Italian Technology for industrial biomanufacturing. <i>Composites Part B: Engineering</i> , 2015 , 68, 281-287	10	11
101	Multi-modal sensing in spin crossover compounds. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 7836-7844	7.1	75
100	Innovative multifunctional silk fibroin and hydrotalcite nanocomposites: a synergic effect of the components. <i>Biomacromolecules</i> , 2014 , 15, 158-68	6.9	29
99	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
98	Selective MW-assisted surface chemical tailoring of hydrotalcites for fluorescent and biocompatible nanocomposites. <i>RSC Advances</i> , 2014 , 4, 11840	3.7	12
97	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
96	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
95	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
94	Improvement of Dye Solar Cell Efficiency by Photoanode Posttreatment. <i>International Journal of Photoenergy</i> , 2014 , 2014, 1-10	2.1	4

93	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
92	N-type perylene-based organic semiconductors for functional neural interfacing. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 3850-3859	7.3	21
91	A transparent organic transistor structure for bidirectional stimulation and recording of primary neurons. <i>Nature Materials</i> , 2013 , 12, 672-80	27	124
90	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
89	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
88	Biofunctional Silk/Neuron Interfaces. <i>Advanced Functional Materials</i> , 2012 , 22, 1871-1884	15.6	45
87	Biomaterials: Biofunctional Silk/Neuron Interfaces (Adv. Funct. Mater. 9/2012). <i>Advanced Functional Materials</i> , 2012 , 22, 1870-1870	15.6	
86	Optimised In2S3Thin Films Deposited by Spray Pyrolysis. <i>International Journal of Photoenergy</i> , 2012 , 2012, 1-7	2.1	28
85	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
84	Thin deposits and patterning of room-temperature-switchable one-dimensional spin-crossover compounds. <i>Langmuir</i> , 2011 , 27, 4076-81	4	89
83	Fabrication of ordered carbon nanotube structures by unconventional lithography. <i>Physica Status Solidi (B): Basic Research</i> , 2010 , 247, 877-883	1.3	3
82	3D Hierarchical Porous TiO2 Films from Colloidal Composite Fluidic Deposition. <i>Chemistry of Materials</i> , 2008 , 20, 7130-7135	9.6	28
81	Direct deposition of magnetite thin films on organic semiconductors. <i>Applied Physics Letters</i> , 2008 , 93, 113305	3.4	12
80	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
79	Micro- and nanopatterning of spin-transition compounds into logical structures. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 8596-600	16.4	148
78	Carbon nanotube networks patterned from aqueous solutions of latex bead carriers. <i>Journal of Materials Chemistry</i> , 2007 , 17, 3681		30
77	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
76	Intragap-trapped-carriers enhancement of the low-temperature delayed phosphorescence in Alq3. <i>Organic Electronics</i> , 2007 , 8, 256-261	3.5	1

75	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
74	Recovering metallicity in A4C60: The case of monomeric Li4C60. <i>Physical Review B</i> , 2007 , 75,	3.3	22
73	New Polymeric Phase in Low-Doped Lithium Intercalated Fullerides. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2006 , 14, 391-400	1.8	5
72	Template evaporation method for controlling anatase nanocrystal size in ordered macroporous TiO2. <i>Journal of Colloid and Interface Science</i> , 2005 , 290, 201-7	9.3	17
71	Solid-state dye PV cells using inverse opal TiO2 films. <i>Solar Energy Materials and Solar Cells</i> , 2005 , 87, 513-519	6.4	56
70	Unusual polymerization in the Li4C60 fulleride. <i>Physical Review B</i> , 2005 , 72,	3.3	35
69	Magnetic field-induced variations in Pr0.65Ca0.35MnO3: Raman investigation. <i>Journal of Magnetism and Magnetic Materials</i> , 2004 , 272-276, 1751-1752	2.8	1
68	Spin polarised electrodes for organic light emitting diodes. <i>Organic Electronics</i> , 2004 , 5, 309-314	3.5	53
67	Transparent manganite films as hole injectors for organic light emitting diodes. <i>Journal of Luminescence</i> , 2004 , 110, 384-388	3.8	26
66	Low-Temperature Phase Transitions in a BiphenylFullerene Single Crystal: A Raman Study. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 4904-4911	3.4	2
65	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
64	Organic light emitting diodes with spin polarized electrodes. <i>Journal of Applied Physics</i> , 2003 , 93, 7682-7683	6.3	45
63	Nanoimprint lithography for organic electronics. <i>Microelectronic Engineering</i> , 2002 , 61-62, 25-31	2.5	59
62	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
61	Organic-Inorganic Hybrid Spin-Valve: A Novel Approach to Spintronics. <i>Phase Transitions</i> , 2002 , 75, 1049-1058	1.5	15
60	The dynamics of the internal phonons tris(quinolin-8-olato) aluminum(III) in crystalline phase. <i>Journal of Chemical Physics</i> , 2002 , 116, 798-813	3.9	30
59	The intramolecular vibrational dynamics of mer-tris(8-hydroxyquinoline)aluminium(III). <i>Synthetic Metals</i> , 2002 , 127, 247-250	3.6	5
58	Ultrathin β -Si films deposited by PECVD. <i>Thin Solid Films</i> , 2001 , 383, 7-10	2.2	12

57	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
56	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
55	Excimer-like electroluminescence from thin films of switchable supermolecular anthracene-based rotaxanes. <i>Synthetic Metals</i> , 2001 , 122, 27-29	3.6	6
54	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
53	The polarized infrared and Raman spectra of BT6 single crystal: An experimental and theoretical study. <i>Journal of Chemical Physics</i> , 2000 , 112, 5957-5969	3.9	31
52	Jahn-teller dynamics in charge-ordered manganites from raman spectroscopy. <i>Physical Review Letters</i> , 2000 , 84, 4489-92	7.4	80
51	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
50	Photoinduced charge transfer in complex architected films of c60 and donor-like molecules. <i>Synthetic Metals</i> , 1999 , 103, 2392-2394	3.6	15
49	Raman and far infrared characterization of the simplest benzylic amide [2] catenane. <i>Synthetic Metals</i> , 1999 , 102, 1556-1557	3.6	1
48	Charge injection into OLEDs during operation studied by Electroabsorption screening. <i>Synthetic Metals</i> , 1999 , 102, 1075-1076	3.6	2
47	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
46	Transitions at T>T _c in underdoped crystals of YBa ₂ Cu ₃ O _{7-x} observed by resonant Raman scattering. <i>Physical Review B</i> , 1997 , 55, 93-96	3.3	17
45	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
44	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
43	New apex-oxygen related mode in Pr ₂ Ba ₂ Cu ₂ O ₇ from ir-excited raman scattering. <i>Solid State Communications</i> , 1995 , 96, 653-657	1.6	5
42	Location of charge transfer states in hexithienyl determined by the electroabsorption technique. <i>Chemical Physics Letters</i> , 1995 , 232, 401-406	2.5	92
41	Apex anharmonicity observed by Raman scattering in ¹⁸ O substituted YBa ₂ Cu ₃ O _{6+x} . <i>Physica C: Superconductivity and Its Applications</i> , 1994 , 226, 101-105	1.3	26
40	K ₄ C 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

39	Preresonance Raman Spectrum of C76. <i>The Journal of Physical Chemistry</i> , 1994 , 98, 7933-7935		13
38	Raman scattering and lattice dynamics of fullerides MxC60. <i>Synthetic Metals</i> , 1994 , 64, 341-352	3.6	8
37	Low energy neutral and charged excitations in Hsexithienyl: a polythiophene model compound. <i>Synthetic Metals</i> , 1993 , 57, 4991-4996	3.6	1
36	Light-induced oxygen incision of C60. <i>Journal of the Chemical Society Chemical Communications</i> , 1993 , 220		58
35	Linear and nonlinear spectroscopy of highly oriented thin films of Hsexithienyl: a model for polythiophene. <i>Synthetic Metals</i> , 1993 , 57, 4714-4721	3.6	8
34	Oxygen effect on photoluminescence of fullerite C60 thin films. <i>Synthetic Metals</i> , 1993 , 56, 3119-3124	3.6	14
33	Raman scattering in ferromagnetic TDAE-C60 compared to TDAE-C70. <i>Synthetic Metals</i> , 1993 , 56, 3050-3056	3.6	18
32	Electronic levels ordering in Hsexithienyl. <i>Synthetic Metals</i> , 1993 , 54, 57-66	3.6	39
31	Infrared-excited Raman scattering and photoluminescence of deep intragap states in semiconducting YBa2Cu3O6+x. <i>Physical Review B</i> , 1993 , 48, 16714-16721	3.3	22
30	Scattering of the vibrational frequencies of 13C12C60 A Raman spectroscopy and quantum chemical study. <i>Chemical Physics Letters</i> , 1993 , 211, 353-357	2.5	10
29	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
28	Study of Photogenerated Nonlinear Excitations in a Polythiophene Model Compound: Hsexithienyl. <i>Molecular Crystals and Liquid Crystals</i> , 1992 , 218, 113-116		5
27	Study of the Lowest Electronic States in a Polythiophene Oligomer, Hsexithienyl, by One and Two-Photon Spectroscopy. <i>Molecular Crystals and Liquid Crystals</i> , 1992 , 217, 101-106		5
26	Low energy electronic excitations and fano resonance in K doped C60 from Raman scattering excited at 1.16 eV. <i>Solid State Communications</i> , 1992 , 81, 257-260	1.6	21
25	CDW suppression and photoinduced gap states in BaBiO3. <i>Solid State Communications</i> , 1992 , 81, 419-423	3.6	5
24	Evidence for electron-phonon coupling in vibrational spectrum of Bi2Sr2CaCu2O8 single crystal. <i>Solid State Communications</i> , 1991 , 78, 979-982	1.6	4
23	IR photoinduced absorption and FT-Raman of YBa2Cu318O6+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
22	Evidence of charge localization from photoinduced infrared absorption in BaBiO3. <i>Bulletin of Materials Science</i> , 1991 , 14, 533-538	1.7	

21	Direct evidence of polaron resonance enhancement of cubic susceptibility in polythiophene. <i>Synthetic Metals</i> , 1991 , 43, 3197-3200	3.6	4
20	Photoinduced absorption in a series of thiophene based conjugated polymers. <i>Synthetic Metals</i> , 1991 , 41, 579-582	3.6	7
19	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
18	Electronic and infrared properties of the hexithienyl single crystal. <i>Synthetic Metals</i> , 1991 , 42, 2359-2362	3.6	30
17	Third order nonlinear optical response in a thiophene substituted conjugated polyene: DTDMP. <i>Synthetic Metals</i> , 1991 , 43, 3177-3180	3.6	2
16	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
15	Optical studies of BaBiO ₃ : A 3D charge density wave (CDW) insulator. <i>Synthetic Metals</i> , 1991 , 43, 3977-3980	3.6	3
14	Frequency variation of cubic susceptibility in the new conjugated polymers PTT and PDTB. <i>Synthetic Metals</i> , 1990 , 37, 223-229	3.6	20
13	FT-Raman scattering at 1.16 eV in the YBa ₂ Cu ₃ O _{7-x} superconducting system. <i>Physica C: Superconductivity and Its Applications</i> , 1989 , 162-164, 1103-1104	1.3	1
12	Transient photomodulation spectroscopy of YBa ₂ Cu ₃ O _{6+x} and La ₂ CuO ₄ . <i>Physica C: Superconductivity and Its Applications</i> , 1989 , 162-164, 1109-1110	1.3	9
11	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
10	Evolution of the IR properties upon the oxygen vacancy ordering in YBa ₂ Cu ₃ O _{7-x} (0 ≤ x ≤ 1). <i>Synthetic Metals</i> , 1989 , 29, 591-596	3.6	2
9	Electronic and phonon photoinduced I.R. absorptions in the YBa ₂ Cu ₃ O _{7-x} high T _c superconducting system. <i>Synthetic Metals</i> , 1989 , 29, 585-590	3.6	6
8	Optical properties of a low energy gap conducting polymer: Polydithieno[3,4-b;3',4'-d]thiophene. <i>Synthetic Metals</i> , 1989 , 28, 507-514	3.6	43
7	Nonlinear-optical response in polythiophene films using four-wave mixing techniques. <i>Optics Letters</i> , 1989 , 14, 1321-3	3	56
6	Dependence of the infrared absorption on oxygen deficiency in the YBa ₂ Cu ₃ O _{7-x} superconducting system. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1989 , 6, 409	1.7	8
5	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
4	Dependence of ir absorption in YBa ₂ Cu ₃ O _{7-x} on the oxygen content. <i>Physica C: Superconductivity and Its Applications</i> , 1988 , 153-155, 645-646	1.3	13

3	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
2	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
1	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