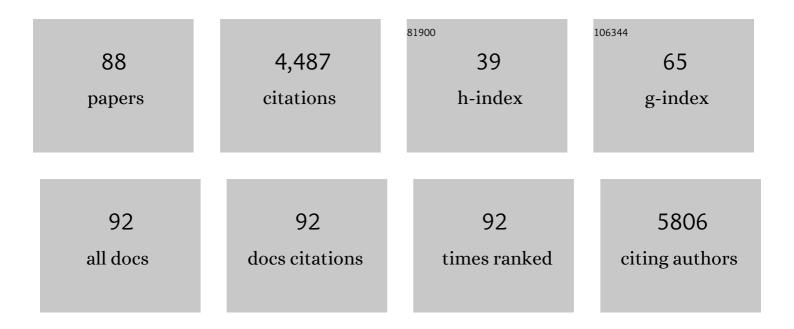
List of Publications by Year in descending order

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DANIELE EAZZI

#	Article	IF	CITATIONS
1	Hot exciton dissociation in polymer solar cells. Nature Materials, 2013, 12, 29-33.	27.5	567
2	Evaluation of Spin-Orbit Couplings with Linear-Response Time-Dependent Density Functional Methods. Journal of Chemical Theory and Computation, 2017, 13, 515-524.	5.3	249
3	Thermoelectric Properties of Solutionâ€Processed nâ€Doped Ladderâ€Type Conducting Polymers. Advanced Materials, 2016, 28, 10764-10771.	21.0	245
4	Transient Absorption Imaging of P3HT:PCBM Photovoltaic Blend: Evidence For Interfacial Charge Transfer State. Journal of Physical Chemistry Letters, 2011, 2, 1099-1105.	4.6	171
5	Very Low Degree of Energetic Disorder as the Origin of High Mobility in an <i>n</i> â€channel Polymer Semiconductor. Advanced Functional Materials, 2011, 21, 3371-3381.	14.9	169
6	A Chemically Doped Naphthalenediimideâ€Bithiazole Polymer for nâ€Type Organic Thermoelectrics. Advanced Materials, 2018, 30, e1801898.	21.0	165
7	Biradicaloid and Polyenic Character of Quinoidal Oligothiophenes Revealed by the Presence of a Low-Lying Double-Exciton State. Journal of Physical Chemistry Letters, 2010, 1, 3334-3339.	4.6	150
8	Spectroscopic Investigation of Oxygen- and Water-Induced Electron Trapping and Charge Transport Instabilities in n-type Polymer Semiconductors. Journal of the American Chemical Society, 2012, 134, 14877-14889.	13.7	138
9	Ground-state electron transfer in all-polymer donor–acceptor heterojunctions. Nature Materials, 2020, 19, 738-744.	27.5	111
10	Structure–Function Relationships of High-Electron Mobility Naphthalene Diimide Copolymers Prepared Via Direct Arylation. Chemistry of Materials, 2014, 26, 6233-6240.	6.7	105
11	Quantum-Chemical Insights into the Prediction of Charge Transport Parameters for a Naphthalenetetracarboxydiimide-Based Copolymer with Enhanced Electron Mobility. Journal of the American Chemical Society, 2011, 133, 19056-19059.	13.7	95
12	Evidence for Solution-State Nonlinearity of sp-Carbon Chains Based on IR and Raman Spectroscopy: Violation of Mutual Exclusion. Journal of the American Chemical Society, 2009, 131, 4239-4244.	13.7	93
13	Resistive Molecular Memories: Influence of Molecular Parameters on the Electrical Bistability. Journal of the American Chemical Society, 2009, 131, 6591-6598.	13.7	86
14	C–H Arylation of Unsubstituted Furan and Thiophene with Acceptor Bromides: Access to Donor–Acceptor–Donor-Type Building Blocks for Organic Electronics. Journal of Organic Chemistry, 2015, 80, 980-987.	3.2	78
15	Neuronal firing modulation by a membrane-targeted photoswitch. Nature Nanotechnology, 2020, 15, 296-306.	31.5	71
16	Low-frequency modes in the Raman spectrum of < mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> < mml:mrow> < mml:mi>s < /mml:mi> < mml:mi>p < /mml:mi> < mml:mi> < mml:mtext> â^' < /mml:mtext> < mml:n carbon. Physical Review B, 2008, 77, .	ni>s?7mml	:mi ⁵⁹ mml:ms
17	Synthesis, Electronic Structure, and Charge Transport Characteristics of Naphthalenediimideâ€Based Coâ€Polymers with Different Oligothiophene Donor Units. Advanced Functional Materials, 2014, 24, 1151-1162.	14.9	65
18	Reversible P3HT/Oxygen Charge Transfer Complex Identification in Thin Films Exposed to Direct Contact with Water. Journal of Physical Chemistry C, 2014, 118, 6291-6299.	3.1	64

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19	Molecular Level Investigation of the Film Structure of a High Electron Mobility Copolymer via Vibrational Spectroscopy. Macromolecules, 2013, 46, 2658-2670.	4.8	63
20	On the role of aggregation effects in the performance of perylene-diimide based solar cells. Organic Electronics, 2014, 15, 1347-1361.	2.6	60
21	Toward carbyne: Synthesis and stability of really long polyynes. Pure and Applied Chemistry, 2010, 82, 891-904.	1.9	59
22	Tuning the Quinoid versus Biradicaloid Character of Thiophene-Based Heteroquaterphenoquinones by Means of Functional Groups. Journal of the American Chemical Society, 2012, 134, 19070-19083.	13.7	59
23	Polymerization Inhibition by Triplet State Absorption for Nanoscale Lithography. Advanced Materials, 2013, 25, 904-909.	21.0	59
24	Raman spectroscopy and microscopy of electrochemically and chemically doped high-mobility semiconducting polymers. Journal of Materials Chemistry C, 2017, 5, 6176-6184.	5.5	57
25	Multi-length-scale relationships between the polymer molecular structure and charge transport: the case of poly-naphthalene diimide bithiophene. Physical Chemistry Chemical Physics, 2015, 17, 8573-8590.	2.8	56
26	On the Effect of Prevalent Carbazole Homocoupling Defects on the Photovoltaic Performance of PCDTBT:PC ₇₁ BM Solar Cells. Advanced Energy Materials, 2016, 6, 1601232.	19.5	52
27	The Activation of Carboxylic Acids via Self-Assembly Asymmetric Organocatalysis: A Combined Experimental and Computational Investigation. Journal of the American Chemical Society, 2016, 138, 14740-14749.	13.7	52
28	Structure and chain polarization of long polyynes investigated with infrared and Raman spectroscopy. Journal of Raman Spectroscopy, 2013, 44, 1398-1410.	2.5	50
29	Modeling ultrafast exciton deactivation in oligothiophenes via nonadiabatic dynamics. Physical Chemistry Chemical Physics, 2015, 17, 7787-7799.	2.8	48
30	Ï€-Conjugation and End Group Effects in Long Cumulenes: Raman Spectroscopy and DFT Calculations. Journal of Physical Chemistry C, 2014, 118, 26415-26425.	3.1	46
31	Intramolecular Vibrational Force Fields for Linear Carbon Chains through an Adaptative Linear Scaling Scheme. Journal of Physical Chemistry A, 2007, 111, 11645-11651.	2.5	45
32	Highly Planarized Naphthalene Diimide–Bifuran Copolymers with Unexpected Charge Transport Performance. Chemistry of Materials, 2017, 29, 5473-5483.	6.7	45
33	A computational investigation on singlet and triplet exciton couplings in acene molecular crystals. Physical Chemistry Chemical Physics, 2011, 13, 18615.	2.8	44
34	Effect of Backbone Regiochemistry on Conductivity, Charge Density, and Polaron Structure of n-Doped Donor–Acceptor Polymers. Chemistry of Materials, 2019, 31, 3395-3406.	6.7	44
35	Firstâ€principles calculation of the Peierls distortion in an infinite linear carbon chain: the contribution of Raman spectroscopy. Journal of Raman Spectroscopy, 2008, 39, 164-168.	2.5	43
36	Biradicaloid Character of Thiopheneâ€Based Heterophenoquinones: The Role of Electron–Phonon Coupling. ChemPhysChem, 2010, 11, 3685-3695.	2.1	43

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37	Ultrafast internal conversion in a low band gap polymer for photovoltaics: experimental and theoretical study. Physical Chemistry Chemical Physics, 2012, 14, 6367.	2.8	43
38	Electron transport in crystalline PCBM-like fullerene derivatives: a comparative computational study. Journal of Materials Chemistry C, 2014, 2, 7313-7325.	5.5	41
39	Unveiling the Role of <i>Hot</i> Charge-Transfer States in Molecular Aggregates via Nonadiabatic Dynamics. Journal of the American Chemical Society, 2016, 138, 4502-4511.	13.7	41
40	sp Carbon chain interaction with silver nanoparticles probed by Surface Enhanced Raman Scattering. Chemical Physics Letters, 2009, 478, 45-50.	2.6	40
41	Ultrafast Energy Transfer in Ultrathin Organic Donor/Acceptor Blend. Scientific Reports, 2013, 3, 2073.	3.3	39
42	Highly Fluorescent Metal–Organic-Framework Nanocomposites for Photonic Applications. Nano Letters, 2018, 18, 528-534.	9.1	37
43	Mapping Orientational Order of Charge-Probed Domains in a Semiconducting Polymer. ACS Nano, 2014, 8, 5968-5978.	14.6	36
44	Hot and Cold Charge-Transfer Mechanisms in Organic Photovoltaics: Insights into the Excited States of Donor/Acceptor Interfaces. Journal of Physical Chemistry Letters, 2017, 8, 4727-4734.	4.6	36
45	Absolute Raman intensity measurements and determination of the vibrational second hyperpolarizability of adamantyl endcapped polyynes. Journal of Raman Spectroscopy, 2012, 43, 1293-1298.	2.5	30
46	Nature of Charge Carriers in a High Electron Mobility Naphthalenediimide Based Semiconducting Copolymer. Advanced Functional Materials, 2014, 24, 5584-5593.	14.9	30
47	Microstructural control suppresses thermal activation of electron transport at room temperature in polymer transistors. Nature Communications, 2019, 10, 3365.	12.8	30
48	Membrane Environment Enables Ultrafast Isomerization of Amphiphilic Azobenzene. Advanced Science, 2020, 7, 1903241.	11.2	28
49	Bent polyynes: ring geometry studied by Raman and IR spectroscopy. Journal of Raman Spectroscopy, 2012, 43, 95-101.	2.5	27
50	First-Principles Study of the Nuclear Dynamics of Doped Conjugated Polymers. Journal of Physical Chemistry C, 2016, 120, 1994-2001.	3.1	25
51	Polarons in Narrow Band Gap Polymers Probed over the Entire Infrared Range: A Joint Experimental and Theoretical Investigation. Journal of Physical Chemistry Letters, 2016, 7, 4438-4444.	4.6	24
52	Photogenerated cumulenic structure of adamantyl endcapped linear carbon chains: An experimental and computational investigation based on infrared spectroscopy. Journal of Chemical Physics, 2011, 134, 124512.	3.0	22
53	Atomistic Simulations of P(NDI2OD-T2) Morphologies: From Single Chain to Condensed Phases. Journal of Physical Chemistry B, 2014, 118, 12556-12565.	2.6	22
54	Polarons in π-conjugated ladder-type polymers: a broken symmetry density functional description. Journal of Materials Chemistry C, 2019, 7, 12876-12885.	5.5	21

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55	Modeling phonons of carbon nanowires. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 2570-2576.	2.7	19
56	Structural Characterization of Highly Oriented Naphthalene-Diimide-Bithiophene Copolymer Films via Vibrational Spectroscopy. Journal of Physical Chemistry B, 2015, 119, 2062-2073.	2.6	19
57	The critical role of interfacial dynamics in the stability of organic photovoltaic devices. Physical Chemistry Chemical Physics, 2014, 16, 8294-8300.	2.8	18
58	On the Origin of Seebeck Coefficient Inversion in Highly Doped Conducting Polymers. Advanced Functional Materials, 2022, 32, .	14.9	18
59	Resistive memories based on Rose Bengal and related xanthene derivatives: insights from modeling charge transport properties. Physical Chemistry Chemical Physics, 2010, 12, 1600.	2.8	16
60	Reply to 'Measuring internal quantum efficiency to demonstrate hot exciton dissociation'. Nature Materials, 2013, 12, 594-595.	27.5	15
61	Ultrafast spectroscopy of linear carbon chains: the case of dinaphthylpolyynes. Physical Chemistry Chemical Physics, 2013, 15, 9384.	2.8	15
62	Photochromic Torsional Switch (PTS): a light-driven actuator for the dynamic tuning of Ï€-conjugation extension. Chemical Science, 2017, 8, 361-365.	7.4	15
63	Size-selected polyynes synthesised by submerged arc discharge in water. Chemical Physics Letters, 2020, 740, 137054.	2.6	13
64	Radical Anion Yield, Stability, and Electrical Conductivity of Naphthalene Diimide Copolymers <i>n</i> Doped with Tertiary Amines. ACS Applied Polymer Materials, 2020, 2, 1954-1963.	4.4	12
65	Stable and Solutionâ€Processable Cumulenic spâ€Carbon Wires: A New Paradigm for Organic Electronics. Advanced Materials, 2022, 34, e2110468.	21.0	12
66	A density matrix based approach for studying excitons in organic crystals. Chemical Physics Letters, 2010, 496, 284-290.	2.6	11
67	Guiding Charge Transport in Semiconducting Carbon Nanotube Networks by Local Optical Switching. ACS Applied Materials & Interfaces, 2020, 12, 28392-28403.	8.0	11
68	Effective hamiltonian for π electrons in linear carbon chains. Chemical Physics Letters, 2007, 450, 86-90.	2.6	10
69	Enhancing the light driven modulation of the refractive index in organic photochromic materials: A quantum chemical strategy. Journal of Photochemistry and Photobiology A: Chemistry, 2010, 214, 61-68.	3.9	10
70	Optical Modulation of Amplified Emission in a Polyfluorene–Diarylethene Blend. ChemPhysChem, 2011, 12, 3619-3623.	2.1	10
71	Probing Exciton Delocalization in Organic Semiconductors: Insight from Time-Resolved Electron Paramagnetic Resonance and Magnetophotoselection Experiments. Journal of Physical Chemistry Letters, 2018, 9, 7026-7031.	4.6	9
72	Addressing the Elusive Polaronic Nature of Multiple Redox States in a Ï€â€Conjugated Ladderâ€Type Polymer. Advanced Electronic Materials, 2021, 7, 2000786.	5.1	9

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73	Understanding the structural and charge transport property relationships for a variety of merocyanine single-crystals: a bottom up computational investigation. Journal of Materials Chemistry C, 2021, 9, 10851-10864.	5.5	9
74	Structure and Electrical Bistability of a New Class of Diphenyl-bithiophenes: A Combined Theoretical and Experimental Study. Journal of Physical Chemistry C, 2008, 112, 18628-18637.	3.1	7
75	Effects of Polymer Packing Structure on Photoinduced Triplet Generation and Dynamics. Journal of Physical Chemistry C, 2012, 116, 11298-11305.	3.1	7
76	Effect of the iodine atom position on the phosphorescence of BODIPY derivatives: a combined computational and experimental study. Photochemical and Photobiological Sciences, 2022, 21, 777-786.	2.9	7
77	Raman spectroscopic characterization of a thiopheneâ€based active material for resistive organic nonvolatile memories. Journal of Raman Spectroscopy, 2010, 41, 406-413.	2.5	6
78	Impact of Fluoroalkylation on the n-Type Charge Transport of Two Naphthodithiophene Diimide Derivatives. Molecules, 2021, 26, 4119.	3.8	6
79	Modulation of the electronic structure of polyconjugated organic molecules by geometry relaxation: A discussion based on local Raman parameters. Journal of Molecular Structure, 2011, 993, 26-37.	3.6	5
80	Impact of the Interfacial Molecular Structure Organization on the Charge Transfer State Formation and Exciton Delocalization in Merocyanine:PC ₆₁ BM Blends. Journal of Physical Chemistry C, 2020, 124, 21978-21984.	3.1	5
81	Ultrafast exciton dissociation at donor/acceptor interfaces. , 2013, , .		1
82	Ultrafast Charge Separation in Low Band-Gap Polymer Blend for Photovoltaics. EPJ Web of Conferences, 2013, 41, 04010.	0.3	1
83	Linear Carbon Chains. , 2016, , 27-48.		1
84	Hot Exciton Dissociation at Organic Interfaces. Materials Research Society Symposia Proceedings, 2013, 1537, 1.	0.1	0
85	Ultrafast hot exciton dissociation at organic interfaces. , 2013, , .		0
86	Ultrafast spectroscopy of dinaphthylpolyynes. , 2013, , .		0
87	Ultrafast spectroscopy of linear carbon chains: the case of dinaphthylpolyynes. EPJ Web of Conferences, 2013, 41, 05026.	0.3	0
88	Time-domain spectroscopy of methane excited by resonant high-energy mid-IR pulses. JPhys Photonics, 2021, 3, 034020.	4.6	0