

# Patrice Rannou

## List of Publications by Year in descending order

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125  
papers

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145106

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128  
docs citations

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times ranked

6845  
citing authors

#	ARTICLE	IF	CITATIONS
1	Unidirectional Perpendicularly Aligned Lamella-Structured Oligosaccharide (A) ABA Triblock Elastomer (B) Thin Films Utilizing Triazolium <sup>+</sup> /TFSI <sup>-</sup> Ionic Nanochannels. ACS Macro Letters, 2022, 11, 140-148.	2.3	3
2	Organic Liquid Crystals as Single-Ion Li <sup>+</sup> Conductors. ChemSusChem, 2021, 14, 655-661.	3.6	8
3	Interfacial Compatibilization in Ternary Polymer Nanocomposites: Comparing Theory and Experiments. Macromolecules, 2021, 54, 797-811.	2.2	14
4	Grafted Nanoparticle Surface Wetting during Phase Separation in Polymer Nanocomposite Films. ACS Applied Materials & Interfaces, 2021, 13, 37628-37637.	4.0	12
5	Hierarchical Nanotube Self-Assembly of DNA Minor Groove-Binding Ligand DB921 via Alkali Halide Triggering. Macromolecular Symposia, 2019, 386, 1800243.	0.4	0
6	Supramolecular Self-Assembly of Nanoconfined Ionic Liquids for Fast Anisotropic Ion Transport. Advanced Functional Materials, 2019, 29, 1905054.	7.8	10
7	Lyotropic liquid crystals and linear supramolecular polymers of end-functionalized oligosaccharides. Chemical Communications, 2019, 55, 11739-11742.	2.2	4
8	Tipping the polaron-bipolaron balance: concentration and spin effects in doped oligo(aniline)s observed by UV-vis-NIR and TD-DFT. Molecular Systems Design and Engineering, 2019, 4, 103-109.	1.7	6
9	Ultraviolet-visible-near-infrared optical properties of amyloid fibrils shed light on amyloidogenesis. Nature Photonics, 2019, 13, 473-479.	15.6	69
10	Dynamic self-assembly of DNA minor groove-binding ligand DB921 into nanotubes triggered by an alkali halide. Nanoscale, 2018, 10, 5550-5558.	2.8	6
11	Alignment of Nanoplates in Lamellar Diblock Copolymer Domains and the Effect of Particle Volume Fraction on Phase Behavior. ACS Macro Letters, 2018, 7, 1400-1407.	2.3	24
12	Self-assembled highly ordered acid layers in precisely sulfonated polyethylene produce efficient proton transport. Nature Materials, 2018, 17, 725-731.	13.3	187
13	Unveiling the Ion Conduction Mechanism in Imidazolium-Based Poly(ionic liquids): A Comprehensive Investigation of the Structure-to-Transport Interplay. Macromolecules, 2017, 50, 4309-4321.	2.2	41
14	Self-Assembly of Carbohydrate- <i>block</i> -Poly(3-hexylthiophene) Diblock Copolymers into Sub-10 nm Scale Lamellar Structures. Macromolecules, 2017, 50, 3365-3376.	2.2	39
15	A synthetic redox biofilm made from metalloprotein-prion domain chimera nanowires. Nature Chemistry, 2017, 9, 157-163.	6.6	76
16	Current status and challenges of the modeling of organic photodiodes and solar cells. , 2016, , .		3
17	Exploring Redox States, Doping and Ordering of Electroactive Star-Shaped Oligo(aniline)s. Chemistry - A European Journal, 2016, 22, 16950-16956.	1.7	15
18	Development of Characterization Platform Dedicated to Bio-Inspired Objects at the Nanoscale. ECS Transactions, 2016, 72, 183-190.	0.3	0

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19	Visible Light-Driven Electron Transfer from a Dye-Sensitized <i>p</i> -Type NiO Photocathode to a Molecular Catalyst in Solution: Toward NiO-Based Photoelectrochemical Devices for Solar Hydrogen Production. <i>Journal of Physical Chemistry C</i> , 2015, 119, 5806-5818.	1.5	46
20	Tuning Optical Properties of Functionalized Gold Nanorods through Controlled Interactions with Organic Semiconductors. <i>Journal of Physical Chemistry C</i> , 2015, 119, 17899-17909.	1.5	4
21	Improvement of the Seebeck coefficient of PEDOT:PSS by chemical reduction combined with a novel method for its transfer using free-standing thin films. <i>Journal of Materials Chemistry C</i> , 2014, 2, 1278-1283.	2.7	247
22	Tuning structure and function in tetra(aniline)-based rod-coil-rod architectures. <i>Journal of Materials Chemistry C</i> , 2013, 1, 6428.	2.7	16
23	Towards Structure Determination of Self-Assembled Peptides Using Dynamic Nuclear Polarization Enhanced Solid-State NMR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 6979-6982.	7.2	37
24	The Influence of Polymer Purification on Photovoltaic Device Performance of a Series of Indacenodithiophene Donor Polymers. <i>Advanced Materials</i> , 2013, 25, 2029-2034.	11.1	129
25	Influence of polymorphism on charge transport properties in isomers of fluorenone-based liquid crystalline semiconductors. <i>Chemical Communications</i> , 2012, 48, 3209.	2.2	33
26	Synthesis and mesomorphism of 2,5-bis(3,4-bis( <i>n</i> -alkoxy)phenyl)thiazolo[5,4- <i>d</i> ]thiazole tetracatenar liquid crystals. <i>Phase Transitions</i> , 2012, 85, 297-308.	0.6	5
27	Spectral dependence of nonlinear absorption and refraction in terthiophene-based organic semiconductors. <i>Optical Materials</i> , 2012, 34, 1682-1685.	1.7	10
28	Donor-acceptor alternating copolymers containing thienopyrroledione electron accepting units: preparation, redox behaviour, and application to photovoltaic cells. <i>Polymer Chemistry</i> , 2012, 3, 2355.	1.9	24
29	Double Smectic Self-Assembly in Block Copolypeptide Complexes. <i>Biomacromolecules</i> , 2012, 13, 3572-3580.	2.6	16
30	Fluorenone core donor-acceptor-donor $\pi$ -conjugated molecules end-capped with dendritic oligo(thiophene)s: synthesis, liquid crystalline behaviour, and photovoltaic applications. <i>Journal of Materials Chemistry</i> , 2011, 21, 5238.	6.7	67
31	Delineating Poly(Aniline) Redox Chemistry by Using Tailored Oligo(Aryleneamine)s: Towards Oligo(Aniline)-Based Organic Semiconductors with Tunable Optoelectronic Properties. <i>Chemistry - A European Journal</i> , 2011, 17, 12512-12521.	1.7	45
32	Star-shaped azomethines based on tris(2-aminoethyl)amine. Characterization, thermal and optical study. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2010, 75, 891-900.	2.0	13
33	Synthesis, characterization and mesomorphic properties of new unsymmetrical azomethine-type liquid crystals derived from 4-biphenyl carboxaldehyde. <i>Journal of Molecular Liquids</i> , 2010, 151, 30-38.	2.3	15
34	Thermal, optical, electrical and structural study of new symmetrical azomethine based on poly(1,4-butanediol)bis(4-aminobenzoate). <i>Journal of Molecular Structure</i> , 2010, 963, 175-182.	1.8	29
35	Poly(aniline) doped with 5-formyl-2-furansulfonic acid: A humidity memory. <i>Organic Electronics</i> , 2010, 11, 472-478.	1.4	21
36	The synthesis and thermal, optical and electrical properties of novel aromatic-aliphatic five- and six-membered thermotropic polyimides. <i>Liquid Crystals</i> , 2010, 37, 1347-1359.	0.9	10

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37	Synthesis, mesomorphic behaviour and optoelectronic properties of phosphorus-based thermotropic liquid crystalline dendrimers. <i>Liquid Crystals</i> , 2010, 37, 1033-1045.	0.9	7
38	Self-Assembly and Hierarchies in Pyridine-Containing Homopolymers and Block Copolymers with Hydrogen-Bonded Cholesteric Side-Chains. <i>Macromolecules</i> , 2010, 43, 1507-1514.	2.2	68
39	Liquid-crystalline phases formed by symmetrical azines with different terminal chains: Thermal, optical and electrical study. <i>Synthetic Metals</i> , 2010, 160, 859-865.	2.1	22
40	Mesomorphic and optical properties of undoped and doped azomethines. <i>Journal of Molecular Liquids</i> , 2009, 148, 77-87.	2.3	7
41	Ionically self-assembled terephthalylidene-bis-4-n-alkylanilines/n-decanesulfonic acid supramolecules: Synthesis, mesomorphic behaviour and optical properties. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2009, 72, 72-81.	2.0	20
42	UV-vis absorption properties of polyazomethine in base and protonated with 1,2-(di-2-ethylhexyl)ester of 4-sulfophthalic acid form. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2009, 74, 174-179.	2.0	5
43	Molecular Weight Dependence of Chain Packing and Semicrystalline Structure in Oriented Films of Regioregular Poly(3-hexylthiophene) Revealed by High-Resolution Transmission Electron Microscopy. <i>Macromolecules</i> , 2009, 42, 1125-1130.	2.2	233
44	Supramolecular associations of poly(ketani)s with sulfonic acid derivatives of benzenetricarboxamide via Brønsted acid-base interactions: Preparation, spectroscopic morphological and thermal investigations. <i>Synthetic Metals</i> , 2009, 159, 282-291.	2.1	3
45	Characterization, optical and thermal properties of new azomethines based on heptadecafluoroundecyloxy benzaldehyde. <i>Liquid Crystals</i> , 2009, 36, 873-883.	0.9	21
46	Mesomorphic Behavior of Symmetrical and Unsymmetrical Azomethines with Two Imine Groups. <i>Materials</i> , 2009, 2, 38-61.	1.3	17
47	Acacia stabilized polyaniline dispersions: preparation, properties and blending with poly(vinyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50,62 Td (phe	0.8	17
48	Synthesis and characterization of processible polyaniline containing plasticizing dendron-type dopants. <i>Synthetic Metals</i> , 2007, 157, 611-618.	2.1	2
49	Conjugated alternating copolymer of dialkylquaterthiophene and fluorenone: synthesis, characterisation and photovoltaic properties. <i>Journal of Materials Chemistry</i> , 2007, 17, 4661.	6.7	44
50	Conducting blends obtained from maleic acid/dodecylhydrogensulfate-doped polyaniline and polyvinyl chloride by solution processing. <i>Journal of Applied Polymer Science</i> , 2007, 103, 1113-1119.	1.3	4
51	Effect of Molecular Weight on the Structure and Morphology of Oriented Thin Films of Regioregular Poly(3-hexylthiophene) Grown by Directional Epitaxial Solidification. <i>Advanced Functional Materials</i> , 2007, 17, 101-108.	7.8	277
52	Probing Local Electronic Transport at the Organic Single-Crystal/Dielectric Interface. <i>Advanced Materials</i> , 2007, 19, 2267-2273.	11.1	39
53	Growth of Rubrene thin film, spherulites and nanowires on SiO <sub>2</sub> . <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2007, 204, 1851-1855.	0.8	24
54	Solution processible and conductive polyaniline via protonation with 4,4-bis(4-hydroxy) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50,62 Td (phe	1.3	17

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55	Carbodithioate-Containing Oligo- and Polythiophenes for Nanocrystals' Surface Functionalization. <i>Chemistry of Materials</i> , 2006, 18, 4817-4826.	3.2	67
56	Probing the Electronic Properties of Self-Organized Poly(3-dodecylthiophene) Monolayers by Two-Dimensional Scanning Tunneling Spectroscopy Imaging at the Single Chain Scale. <i>Nano Letters</i> , 2006, 6, 1711-1718.	4.5	55
57	Disorder Effects in Plastic and Highly Conducting Compounds of Poly(aniline). <i>Macromolecular Symposia</i> , 2006, 241, 28-33.	0.4	1
58	Conformational studies of self-organized regioregular poly(3-dodecylthiophene)s using non-contact atomic force microscopy in ultra high vacuum condition. <i>Thin Solid Films</i> , 2006, 499, 168-173.	0.8	4
59	Force field based molecular dynamics simulations in highly conducting compounds of poly(aniline). A comparison with quasi-elastic neutron scattering measurements. <i>Chemical Physics</i> , 2005, 317, 289-297.	0.9	8
60	Plastic Solar Cells Based on Fluorenone-Containing Oligomers and Regioregular Alternate Copolymers. <i>Advanced Functional Materials</i> , 2005, 15, 1547-1552.	7.8	45
61	Nanometer-scale mechanical properties probed by two-dimensional dynamic force spectroscopy with rigid cantilever. <i>Applied Physics Letters</i> , 2005, 87, 133101.	1.5	3
62	Grafting of oligoaniline on CdSe nanocrystals: spectroscopic, electrochemical and spectroelectrochemical properties of the resulting organic/inorganic hybrid. <i>Journal of Materials Chemistry</i> , 2005, 15, 554.	6.7	23
63	New insight on local electronic transport properties of poly(aniline): A comparative study of oligo(aniline) model compound and polymer using spin dynamics techniques. <i>Synthetic Metals</i> , 2005, 152, 193-196.	2.1	2
64	Counter-ions dynamics in highly plastic and conducting compounds of poly(aniline). A quasi-elastic neutron scattering study. <i>Physical Chemistry Chemical Physics</i> , 2005, 7, 1235-1240.	1.3	6
65	Dynamics of counter-ions in a conducting rigid polymer matrix: the relation with electrical properties. <i>Philosophical Magazine</i> , 2004, 84, 1547-1554.	0.7	3
66	Arrays of polymer nanowires. <i>Nature Materials</i> , 2004, 3, 503-504.	13.3	18
67	New conjugated polyketanils: tuning of optical properties via chain design and protonic doping. <i>Thin Solid Films</i> , 2004, 453-454, 362-366.	0.8	10
68	Multiscale Scanning Tunneling Microscopy Study of Self-Assembly Phenomena in Two-Dimensional Polycrystals of $\pi$ -Conjugated Polymers: The Case of Regioregular Poly(dioctylbithiophene-alt-fluorenone). <i>Advanced Materials</i> , 2004, 16, 2087-2092.	11.1	39
69	Molecular design of new $\pi$ -conjugated poly(ketanils) with tunable spectroscopic properties. <i>New Journal of Chemistry</i> , 2004, 28, 1554-1561.	1.4	12
70	Solution Processible Sulfosuccinate Doped Polypyrrole: Preparation, Spectroscopic and Spectroelectrochemical Characterization. <i>Molecular Crystals and Liquid Crystals</i> , 2004, 415, 93-104.	0.4	13
71	Direct analysis of lamellar structure in polyaniline protonated with plasticizing dopants. <i>Synthetic Metals</i> , 2004, 143, 163-169.	2.1	24
72	Synthesis, characterization and optical properties of oligoketanils containing carbon-carbon double bond in the main chain. <i>Synthetic Metals</i> , 2004, 143, 331-339.	2.1	29

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73	STM studies of poly(3-alkylthiophene)s: model systems for plastic electronics. <i>Synthetic Metals</i> , 2004, 146, 311-315.	2.1	22
74	Scanning Tunneling Microscopy Investigations of Self-Organized Poly(3-hexylthiophene) Two-Dimensional Polycrystals. <i>Advanced Materials</i> , 2003, 15, 881-884.	11.1	103
75	Molecular dynamics in plastic conducting compounds of polyaniline. <i>Chemical Physics</i> , 2003, 292, 355-361.	0.9	13
76	Low Tg, Stretchable Polyaniline of Metallic-Type Conductivity: Role of Dopant Engineering in the Control of Polymer Supramolecular Organization and in the Tuning of Its Properties. <i>Chemistry of Materials</i> , 2003, 15, 1587-1592.	3.2	63
77	The role of chain and dopant engineering in the preparation of processible conducting polymers with desired properties. <i>Synthetic Metals</i> , 2003, 135-136, 63-68.	2.1	19
78	Raman studies of polythiophene-tetraaniline hybrid polymer. <i>Synthetic Metals</i> , 2003, 135-136, 307-308.	2.1	1
79	Doping-induced stretchability of metallic poly(aniline). <i>Synthetic Metals</i> , 2003, 135-136, 323-324.	2.1	4
80	Insulator-Metal transition in Polyaniline induced by plasticizers. <i>Synthetic Metals</i> , 2003, 135-136, 327-328.	2.1	14
81	Lattice stiffening and electronic localization in conducting compounds of polyaniline. <i>Synthetic Metals</i> , 2003, 135-136, 259-260.	2.1	1
82	Solution processible poly(aniline) via doping with diesters of sulfosuccinic acid. <i>Synthetic Metals</i> , 2003, 138, 543-548.	2.1	12
83	Regiochemically Well-Defined Fluorenone-alkylthiophene Copolymers: Synthesis, Spectroscopic Characterization, and Their Postfunctionalization with Oligoaniline. <i>Macromolecules</i> , 2003, 36, 7045-7054.	2.2	47
84	Preparation and spectroelectrochemical behaviour of a new alternate copolymer of 3,3'-di-n-octyl-2,2'-bithiophene and fluorene-9-one. <i>New Journal of Chemistry</i> , 2003, 27, 1479-1484.	1.4	15
85	Multi-scale scanning tunneling microscopy imaging of self-organized regioregular poly(3-hexylthiophene) films. <i>Journal of Chemical Physics</i> , 2003, 118, 7097-7102.	1.2	95
86	Synthesis and spectroscopic characterization of polythiophene containing pendant oligoaniline groups. <i>Polimery</i> , 2003, 48, 505-510.	0.4	1
87	Flexible Polyaniline of Metallic Type Conductivity Obtained via Protonation of Emeraldine Base with 2-Ethylhexyl Diester of 5-Sulfo- <i>i</i> -Phthalic Acid. <i>Molecular Crystals and Liquid Crystals</i> , 2002, 374, 569-576.	0.4	1
88	Temperature-Induced Transitions in Doped Polyaniline: Correlation between Glass Transition, Thermochromism and Electrical Transport. <i>Journal of Physical Chemistry B</i> , 2002, 106, 10553-10559.	1.2	27
89	Spectroscopic and Spectroelectrochemical Properties of a Poly(alkylthiophene)-Oligoaniline Hybrid Polymer. <i>Macromolecules</i> , 2002, 35, 6112-6120.	2.2	47
90	Molecular dynamics in conducting polyaniline protonated by camphor sulfonic acid as seen by quasielastic neutron scattering. <i>Physical Review B</i> , 2002, 65, .	1.1	12

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91	Dynamics of flexible counter-ions in conducting polyaniline: a quasielastic neutron-scattering study. Applied Physics A: Materials Science and Processing, 2002, 74, s402-s404.	1.1	3
92	Processible conjugated polymers: from organic semiconductors to organic metals and superconductors. Progress in Polymer Science, 2002, 27, 135-190.	11.8	667
93	Effect of Plasticizing Dopants on Spectroscopic Properties, Supramolecular Structure, and Electrical Transport in Metallic Polyaniline. Chemistry of Materials, 2001, 13, 4032-4040.	3.2	81
94	New PANI/dopant/solvent associations for processing of metallic PANI. Synthetic Metals, 2001, 119, 441-442.	2.1	3
95	New counterion-plasticized polyaniline with improved mechanical and thermal properties : comparison with PANI-CSA. Synthetic Metals, 2001, 119, 445-446.	2.1	5
96	Molecular dynamics in PANI/CSA as seen by quasielastic neutron scattering. Synthetic Metals, 2001, 119, 411-412.	2.1	1
97	Lewis acid doping of poly(aniline)-processing, spectroscopic and structural consequences. Synthetic Metals, 2001, 119, 415-416.	2.1	10
98	Dynamics of camphor sulfonic acid in polyaniline (PANI-CSA): a quasielastic neutron scattering study. Physica B: Condensed Matter, 2001, 301, 49-53.	1.3	7
99	Ageing of PANI: chemical, structural and transport consequences. Synthetic Metals, 1999, 101, 734-737.	2.1	65
100	Is granularity the determining feature for electron transport in conducting polymers ?. Synthetic Metals, 1999, 101, 359-362.	2.1	34
101	An overall view of the structure of an heterogeneous medium: the conducting polyaniline. Synthetic Metals, 1999, 101, 764-767.	2.1	15
102	NMR study of aging effects in polyaniline CSA. Synthetic Metals, 1999, 101, 778-779.	2.1	4
103	Optical reflectance and RBS studies of thermally aged CSA-protonated polyaniline films. Synthetic Metals, 1999, 102, 1283-1284.	2.1	2
104	Structural investigation of the effect of aging on conducting polyanilines. Synthetic Metals, 1999, 101, 803-804.	2.1	9
105	Gas sorption and esr studies of ageing in pani-csa. Synthetic Metals, 1999, 101, 798-799.	2.1	2
106	Chemical degradation of aged CSA-protonated PANI films analyzed by XPS. Synthetic Metals, 1999, 101, 823-824.	2.1	20
107	Annealing effect in polyaniline-CSA upon moderate heating. Synthetic Metals, 1999, 101, 727-728.	2.1	6
108	Metallic polyaniline processed from 1,1,1,3,3,3-hexafluoro-2-propanol. Synthetic Metals, 1999, 101, 729-730.	2.1	6

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109	Ageing of Poly(3,4-ethylenedioxythiophene): Kinetics of conductivity decay and lifespan. Synthetic Metals, 1999, 101, 474.	2.1	22
110	UV-vis-NIR Studies of new PANI/dopant/solvent associations with metallic-like behaviour. Synthetic Metals, 1999, 101, 827-828.	2.1	10
111	Ageing and lifespan of PANI-CSA: Kinetics of conductivity decay and chemical degradations. Synthetic Metals, 1999, 101, 829.	2.1	8
112	Investigation of the ageing effect on PANI-CSA by conductivity and magnetoresistance measurements. Synthetic Metals, 1999, 101, 836-837.	2.1	15
113	Ageing in PANI-HCl: a grain size story. Synthetic Metals, 1999, 101, 838.	2.1	4
114	Preliminary SANS studies of PANI-CSA films. Synthetic Metals, 1999, 101, 839.	2.1	0
115	Effect of solvent-dopant competition on the conductivity of polyaniline films. Synthetic Metals, 1999, 101, 842.	2.1	8
116	Preparation of low density polyethylene-based polyaniline conducting polymer composites with low percolation threshold via extrusion. Synthetic Metals, 1998, 93, 169-173.	2.1	93
117	Controlled polymerization of aniline at sub-zero temperatures. Synthetic Metals, 1998, 95, 29-45.	2.1	116
118	Spectroscopic, Structural and Transport Properties of Conductive Polyaniline Processed from Fluorinated Alcohols. Macromolecules, 1998, 31, 3007-3015.	2.2	65
119	Model for aging in HCl-protonated polyaniline: Structure, conductivity, and composition studies. Physical Review B, 1998, 58, 7637-7647.	1.1	90
120	A model for PANI-HCl ageing. Journal De Chimie Physique Et De Physico-Chimie Biologique, 1998, 95, 1396-1399.	0.2	7
121	PANI-CSA films: ageing and kinetics of conductivity degradation. Journal De Chimie Physique Et De Physico-Chimie Biologique, 1998, 95, 1410-1413.	0.2	9
122	Investigation of ageing effects in PANI-CSA by conductivity and structural measurements. Journal De Chimie Physique Et De Physico-Chimie Biologique, 1998, 95, 1414-1417.	0.2	3
123	Apport de la réflectance spéculaire à l'étude de polymères conducteurs. Vieillessement de la polyaniline et composites conducteurs. Journal De Chimie Physique Et De Physico-Chimie Biologique, 1998, 95, 1418-1422.	0.2	0
124	Protonation of Polyaniline in Hexafluoro-2-propanol. Spectroscopic Investigation. Macromolecules, 1997, 30, 7091-7095.	2.2	32
125	Aging studies on polyaniline : conductivity and thermal stability. Synthetic Metals, 1997, 84, 755-756.	2.1	49