Francoise Serein-Spirau

List of Publications by Year
in descending order

73 papers	1,423 citations	361413 20 h-index	377865 34 g-index
75 all docs	75 docs citations	75 times ranked	2050 citing authors

#	Article	IF	Citations
1	Analysis of molecular ligand functionalization process in nano-molecular electronic devices containing densely packed nano-particle functionalization shells. Nanotechnology, 2022, 33, 255706.	2.6	2
2	Elaboration of low-band-gap Ï€-conjugated systems based on thieno[3,4-b]pyrazines. Pure and Applied Chemistry, 2020, 92, 335-353.	1.9	4
3	Energy transport and light propagation mechanisms in organic single crystals. Journal of Chemical Physics, 2020, 153, 144202.	3.0	11
4	Detection of hydrogen peroxide using dioxazaborocanes: elucidation of the sensing mechanism at the molecular level by NMR and XPS measurements. New Journal of Chemistry, 2020, 44, 4114-4121.	2.8	5
5	New TBT based conducting polymers functionalized with redox-active tetrazines. Journal of Electroanalytical Chemistry, 2019, 840, 60-66.	3.8	7
6	Transition metal silicide surface grafting by multiple functional groups and green optimization by mechanochemistry. Physical Chemistry Chemical Physics, 2019, 21, 25720-25727.	2.8	2
7	Photomodulation of DNAâ€Templated Supramolecular Assemblies. Chemistry - A European Journal, 2018, 24, 706-714.	3.3	10
8	Computational design of quadrupolar donor-acceptor-donor molecules with near-infrared light-harvesting capabilities. Dyes and Pigments, 2018, 149, 882-892.	3.7	11
9	The optoelectronic properties of new dyes based onÂthienopyrazine. Comptes Rendus Chimie, 2017, 20, 461-466.	0.5	22
10	DFT/TD-DFT characterization of conjugational electronic structures and spectral properties of materials based on thieno[3,2-b][1]benzothiophene for organic photovoltaic and solar cell applications. Journal of Saudi Chemical Society, 2017, 21, 563-574.	5.2	44
11	Designing sterically demanding thiolate coated AuNPs for electrical characterization of BPDT in a NPâ€“moleculeâ€“nanoelectrode platform. Molecular Systems Design and Engineering, 2017, 2, 133-139.	3.4	8
12	Low loss optical waveguiding in large single crystals of a thiophene-based oligomer. Physical Chemistry Chemical Physics, 2017, 19, 15980-15987.	2.8	11
13	DFT theoretical investigations of Ï€-conjugated molecules based on thienopyrazine and different acceptor moieties for organic photovoltaic cells. Journal of Saudi Chemical Society, 2016, 20, S415-S425.	5.2	35
14	Conjugation Length Distribution in Poly(p-phenylenevinylene) (PPV) Films. Journal of Physical Chemistry A, 2016, 120, 9702-9706.	2.5	3
15	Ellipsometric Raman Spectroscopy. Journal of Physical Chemistry C, 2016, 120, 25101-25109.	3.1	17
16	Revealing Order and Disorder in Films and Single Crystals of a Thiophene-Based Oligomer by Optical Spectroscopy. ACS Photonics, 2016, 3, 2315-2323.	6.6	6
17	A new designed Ï€ conjugated molecule for stable single walled carbon nanotube dispersion in aqueous medium. Journal of Colloid and Interface Science, 2016, 464, 117-125.	9.4	11
18	Study of low band gap DSSCs based on bridging bithiophene and biphenyl: theoretical investigation. Journal of the Iranian Chemical Society, 2016, 13, 37-44.	2.2	2

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19	Spontaneous assembly of silylethane-thiol derivatives on Au(111): a chemically robust thiol protecting group as the precursor for the direct formation of aromatic gold thiolate monolayers. Chemical Communications, 2015, 51, 7622-7625.	4.1	5
20	Laser-induced forward transfer of multi-layered structures for OTFT applications. Applied Surface Science, 2015, 336, 11-15.	6.1	24
21	One- and two-photon absorption and emission properties of an oligo(phenylenethienylene)s series. Physical Chemistry Chemical Physics, 2014, 16, 12826.	2.8	9
22	Supramolecular Rutheniumâ€“Alkynyl Multicomponent Architectures: Engineering, Photophysical Properties, and Responsiveness to Nitroaromatics. Organometallics, 2014, 33, 665-676.	2.3	15
23	Efficient Sensing of Explosives by Using Fluorescent Nonporous Films of Oligophenyleneethynylene Derivatives Thanks to Optimal Structure Orientation and Exciton Migration. Chemistry - A European Journal, 2014, 20, 15069-15076.	3.3	13
24	Temperature resolved aggregate states in dialkoxyphenylene-thiophene oligomer. Chemical Physics Letters, 2014, 614, 67-71.	2.6	4
25	Twoâ€Photonâ€Triggered Drug Delivery in Cancer Cells Using Nanoimpellers. Angewandte Chemie - International Edition, 2013, 52, 13813-13817.	13.8	94
26	Interfacial exciplex formation in bilayers of conjugated polymers. Journal of Chemical Physics, 2013, 139, 164908.	3.0	5
27	Generating Long Supramolecular Pathways with a Continuous Density of States by Physically Linking Conjugated Molecules via Their End Groups. Journal of the American Chemical Society, 2013, 135, 5693-5698.	13.7	17
28	Comprehensive Analysis of Fragment Orbital Interactions to Build Highly Ï€â€Conjugated Thienyleneâ€Substituted Phenylene Oligomers. Chemistry - A European Journal, 2013, 19, 7532-7546.	3.3	15
29	Laser printing of air-stable high performing organic thin film transistors. Organic Electronics, 2012, 13, 2035-2041.	2.6	28
30	Why do chemical sensors for explosives detection lose their fluorescence under UVâ€“visible exposure?. Polymer Degradation and Stability, 2012, 97, 1355-1365.	5.8	4
31	Theoretical Investigations on the Electronic and Optical Properties of Bridged Oligothiophenes. Journal of Physical Chemistry A, 2012, 116, 9730-9738.	2.5	17
32	Far-infrared spectroscopy investigation of sulfurâ€“oxygen interactions in Ï€-conjugated oligomers. Chemical Physics Letters, 2012, 535, 116-119.	2.6	2
33	One pot synthesis of fluorescent Ï€-conjugated materials: immobilization of phenyleneâ€“ethynylene polyelectrolytes in silica confined ionogels. Journal of Materials Chemistry, 2011, 21, 13588.	6.7	20
34	Linear and Nonlinear Optical Properties of the Thiophene/Phenylene-Based Oligomer and Polymer. Journal of Physical Chemistry B, 2011, 115, 12687-12693.	2.6	29
35	Controlling Bandgap Energy and Multivibronic Modes of a Poly(2,5-thiophene-1,4-dialkoxyphenylene) Derivative by Gamma Photons. Journal of Physical Chemistry A, 2011, 115, 8288-8294.	2.5	5
36	Effect of molecular structure on bias stress effect in organic thin-film transistors. Applied Surface Science, 2011, 257, 9386-9389.	6.1	6

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37	Exchange with temperature of the electronâ€vibrational mode interaction between thienyleneâ€“phenylene copolymer rings. Journal of Polymer Science, Part B: Polymer Physics, 2010, 48, 964-971.	2.1	11
38	Ultra trace detection of explosives in air: Development of a portable fluorescent detector. Talanta, 2010, 81, 543-548.	5.5	68
39	Acetylenic spacers in phenylene end-substituted oligothiophene core for highly air-stable organic field-effect transistors. Physical Chemistry Chemical Physics, 2010, 12, 3845.	2.8	17
40	Alternated Ï€â€conjugated polymers based on a 1,2â€diiminocyclohexane chiral unit for nitroaromatics sensing. Journal of Polymer Science Part A, 2009, 47, 4141-4149.	2.3	10
41	Ageing of thin films used in explosives detection. Procedia Chemistry, 2009, 1, 244-247.	0.7	1
42	Lattice Dynamics of Oligo(phenylenethienylene)s: A Far-Infrared and Inelastic Neutron Scattering Study. Journal of Physical Chemistry B, 2009, 113, 4197-4202.	2.6	9
43	Electroactive Nanorods and Nanorings Designed by Supramolecular Association of Ï€â€Conjugated Oligomers. Chemistry - A European Journal, 2008, 14, 4201-4213.	3.3	26
44	Structural and Electronic Properties of New Materials Based on Thiophene and Phenylene. Acta Physico-chimica Sinica, 2008, 24, 37-40.	0.6	2
45	Correlations between Structure and Far-Infrared Active Modes in Polythiophenes. Journal of Physical Chemistry B, 2008, 112, 12662-12665.	2.6	9
46	How to Build Fully Ï€-Conjugated Architectures with Thienylene and Phenylene Fragments. European Journal of Organic Chemistry, 2007, 2007, 4019-4031.	2.4	35
47	Nanostructuration of Phenylenevinylenediimide-Bridged Silsesquioxane:Â From Electroluminescent Molecular J-Aggregates to Photoresponsive Polymeric H-Aggregates. Journal of the American Chemical Society, 2006, 128, 4892-4901.	13.7	81
48	Self-Organized Ureido Substituted Diacetylenic Organogel. Photopolymerization of One-Dimensional Supramolecular Assemblies to Give Conjugated Nanofibers. Journal of the American Chemical Society, 2006, 128, 16213-16223.	13.7	173
49	Absorption and photoluminescence of a new thienyleneâ€“phenylene copolymer. Journal of Non-Crystalline Solids, 2006, 352, 3685-3688.	3.1	5
50	Polymer light-emitting diodes with a phenyleneethynylene derivative as a novel hole blocking layer for efficiency enhancements. Synthetic Metals, 2006, 156, 690-694.	3.9	7
51	Layered organic film growth by substrate temperature tuning for efficiency-enhanced OLEDs. Organic Electronics, 2006, 7, 38-44.	2.6	15
52	Study of [Thienylene-dialkoxy phenylene] Conjugated Materials. Macromolecular Symposia, 2005, 229, 194-196.	0.7	3
53	Confined photoactive substructures on a chiral scaffold: the design of an electroluminescent polyimide as material for PLED**. Journal of Materials Chemistry, 2005, 15, 4446.	6.7	38
54	Far- and Mid-Infrared of Crystalline 2,2â€˜-Bithiophene:â€‰ Ab Initio Analysis and Comparison with Infrared Response. Journal of Physical Chemistry A, 2005, 109, 1684-1691.	2.5	33

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55	Synthesis and characterization of thienyleneâ€“phenylene copolymers with oligo(ethylene oxide) side chains. Journal of Materials Chemistry, 2004, 14, 3043-3050.	6.7	24
56	Novel synthesis of arylboronic acids by electroreduction of aromatic halides in the presence of trialkyl borates. New Journal of Chemistry, 2002, 26, 373-375.	2.8	31
57	New chiral Ï€-conjugated polymers based on a (1R,2R)-diiminocyclohexane chiral unit with weak interchain Ï€ stacking. Chemical Communications, 2002, , 3020-3021.	4.1	13
58	A thienylene-phenylene copolymer with di(ethylene oxide) side chains and its use in light emitting diodes. Synthetic Metals, 2002, 126, 241-244.	3.9	17
59	Synthesis and optical properties of (thienylene)â€“[1,6-dithienylhexa-1,3,5-trienylene] copolymers. Journal of Materials Chemistry, 2001, 11, 718-722.	6.7	14
60	Electrochemical Synthesis of Functional Aryl- and Heteroarylchlorosilanes. Application to the Preparation of Donorâ^'Acceptor or Donorâ^'Donor Organosilicon Molecules. Organometallics, 2001, 20, 1910-1917.	2.3	12
61	A chiral polymer with alternating conjugated segments and (1 R, 2 R)-1,2-diaminocyclohexane as a unit with C 2 symmetry. Tetrahedron Letters, 2001, 42, 3073-3076.	1.4	24
62	Synthesis and ionochromic properties of chelating conjugated polymers. Journal of Materials Chemistry, 2000, 10, 263-268.	6.7	33
63	Synthesis, orientation and optical properties of thiopheneâ€“dialkoxyphenylene copolymers. Journal of Materials Chemistry, 2000, 10, 927-932.	6.7	42
64	Oxidative polymerisation of silyl monomers. Applications and limits. Synthetic Metals, 1999, 101, 15-16.	3.9	5
65	High-yield electrosynthesis of furylchlorosilanes, silyl and silanylene furans. Journal of Organometallic Chemistry, 1998, 570, 147-154.	1.8	5
66	Selective and High-Yield Electrosynthesis of (Silyl and Silanylene 1-Methylpyrroles) from 1-Methylpyrrole Bromides. Synthetic Communications, 1998, 28, 3403-3414.	2.1	8
67	Electrochemical Stepwise Synthesis of Poly[2,5-(silanylene)thiophene] Precursors. Organometallics, 1998, 17, 2797-2804.	2.3	13
68	Third-Order Nonlinear Optical Properties in the Excited State of Well-Defined Thiopheneâ^'Dimethylsilyl Co-oligomers. Journal of Physical Chemistry B, 1998, 102, 1487-1497.	2.6	16
69	Electrochemical synthesis of bis(2-thienyl) silanes, 2-thienylchlorosilanes, bis[5-(2-bromothienyl)]silanes, and 5-(2-bromothienyl) dimethylchlorosilane, precursors of poly[(silanylene)thiophene]s. Journal of Organometallic Chemistry, 1996, 522, 213-221.	1.8	15
70	Lâ€™Ã©lectrosynthÃ¨se Ã anode consommable : quel apport pour la chimie organique du silicium ?. Journal De Chimie Physique Et De Physico-Chimie Biologique, 1996, 93, 591-600.	0.2	15
71	Competitive Electrochemical Synthesis of 1-Methoxy-3,6-Bis (Trimethylsilyl) Cyclohexa-1,4-diene, a Ketoprofen Precursor. Synthetic Communications, 1993, 23, 1727-1733.	2.1	4
72	Carbon monoxide as a building block for organic synthesis. Part III. Selective hydrocarbonylation of monoterpenes to give potentially biologically active aldehydes. Journal of Molecular Catalysis, 1991, 66, 399-407.	1.2	41

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73	Influence of various parameters on the selectivity of the production of aldehydes starting from alkenes issued from the biomass and using the catalyst precursors Rh2(Î¼-sr)2(CO)2(PA3)2. Journal of Molecular Catalysis, 1986, 36, 349-357.	1.2	25