Pedro M Viruela

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100 papers

3,617 citations

36 h-index

57 g-index

101 ext. papers

3,755 ext. citations

5.9 avg, IF

4.61 L-index

#	Paper	IF	Citations
100	Stable single-layer light-emitting electrochemical cell using 4,7-diphenyl-1,10-phenanthroline-bis(2-phenylpyridine)iridium(III) hexafluorophosphate. <i>Journal of the American Chemical Society</i> , 2006 , 128, 14786-7	16.4	177
99	Reaction intermediates in acid catalysis by zeolites: prediction of the relative tendency to form alkoxides or carbocations as a function of hydrocarbon nature and active site structure. <i>Journal of the American Chemical Society</i> , 2004 , 126, 3300-9	16.4	163
98	On the biradicaloid nature of long quinoidal oligothiophenes: experimental evidence guided by theoretical studies. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 9057-61	16.4	139
97	Electronic Confinement of Molecules in Microscopic Pores. A New Concept Which Contributes to the Explanation of the Catalytic Activity of Zeolites. <i>The Journal of Physical Chemistry</i> , 1994 , 98, 10863-	10870	128
96	Concave tetrathiafulvalene-type donors as supramolecular partners for fullerenes. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 1847-51	16.4	113
95	Synthesis, Properties, and Theoretical Characterization of Largely Extended Tetrathiafulvalene Derivatives with Quinonoid Structures. <i>Journal of Organic Chemistry</i> , 1998 , 63, 1268-1279	4.2	112
94	Ab Initio Determination of the Geometric Structure and Internal Rotation Potential of 2,2SBithiophene. <i>The Journal of Physical Chemistry</i> , 1995 , 99, 4955-4963		111
93	Nitro-functionalized oligothiophenes as a novel type of electroactive molecular material: spectroscopic, electrochemical, and computational study. <i>Journal of the American Chemical Society</i> , 2003 , 125, 2524-34	16.4	101
92	Ab initio molecular orbital calculations of the protonation of propylene and isobutene by acidic hydroxyl groups of isomorphously substituted zeolites. <i>The Journal of Physical Chemistry</i> , 1993 , 97, 137	13-137	'1 ⁹
91	Theoretical Study of the Mechanism of Zeolite-Catalyzed Isomerization Reactions of Linear Butenes. <i>Journal of Physical Chemistry A</i> , 1998 , 102, 982-989	2.8	90
90	Geometric Structure and Torsional Potential of Biisothianaphthene. A Comparative DFT and ab Initio Study. <i>Journal of the American Chemical Society</i> , 1997 , 119, 1360-1369	16.4	89
89	Predicting the activity of single isolated Lewis acid sites in solid catalysts. <i>Chemistry - A European Journal</i> , 2006 , 12, 7067-77	4.8	86
88	A multisite molecular mechanism for Baeyer-Villiger oxidations on solid catalysts using environmentally friendly H2O2 as oxidant. <i>Chemistry - A European Journal</i> , 2005 , 11, 6905-15	4.8	80
87	Synthesis and Electrochemistry of Electronegative Spiroannelated Methanofullerenes: Theoretical Underpinning of the Electronic Effect of Addends and a Reductive Cyclopropane Ring-Opening Reaction. <i>Journal of the American Chemical Society</i> , 1997 , 119, 9871-9882	16.4	79
86	Formation of Surface Methoxy Groups on H-Zeolites from Methanol. A Quantum Chemical Study. <i>The Journal of Physical Chemistry</i> , 1995 , 99, 13224-13231		75
85	Activation of Molecules in Confined Spaces: An Approach to Zeolite Guest Supramolecular Systems. <i>Journal of Physical Chemistry B</i> , 1997 , 101, 4575-4582	3.4	68
84	Weighting non-covalent forces in the molecular recognition of C(60). Relevance of concave-convex complementarity. <i>Chemical Communications</i> , 2008 , 4567-9	5.8	68

83	Cooperative supramolecular polymerization and amplification of chirality in C3-symmetrical OPE-based trisamides. <i>Chemistry - A European Journal</i> , 2011 , 17, 7755-9	4.8	67
82	Quinoidal oligothiophenes: towards biradical ground-state species. <i>Chemistry - A European Journal</i> , 2010 , 16, 470-84	4.8	63
81	Combined Spectroelectrochemical and Theoretical Study of a Vinylene-Bridged Sexithiophene Cooligomer: Analysis of the Electron Delocalization and of the Electronic Defects Generated upon Doping. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 3872-3881	3.4	60
80	Influence of the Local Geometry of Zeolite Active Sites and Olefin Size on the Stability of Alkoxide Intermediates. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 11169-11177	3.4	59
79	Non-centrosymmetric homochiral supramolecular polymers of tetrahedral subphthalocyanine molecules. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 2543-7	16.4	51
78	Reaction of C60with Sultines: Synthesis, Electrochemistry, and Theoretical Calculations of Organofullerene Acceptors. <i>Journal of Organic Chemistry</i> , 1997 , 62, 7585-7591	4.2	50
77	Donor Acceptor Species Derived from Functionalised 1,3-Dithiol-2-ylidene Anthracene Donor Units Exhibiting Photoinduced Electron Transfer Properties: Spectroscopic, Electrochemical, X-Ray Crystallographic and Theoretical Studies. <i>Chemistry - A European Journal</i> , 1998 , 4, 2580-2592	4.8	50
76	New functionalized tetrathiafulvalenes: X-ray crystal structures and physico-chemical properties of TTFI(O)NMe2 and TTFI(O)DI(4H9: a joint experimental and theoretical study. <i>Journal of Materials Chemistry</i> , 1995 , 5, 1689-1696		50
75	New 1,3-dithiol-2-ylidene donor ceptor chromophores with intramolecular charge-transfer properties, and related donor notecules: synthesis, electrochemistry, X-ray crystal structures, non-linear optical properties and theoretical calculations. <i>Journal of Materials Chemistry</i> ,		49
74	1998, 8, 1173-1184 Acid softness and hardness in large-pore zeolites as a determinant parameter to control selectivity in orbital-controlled reactions. <i>Journal of the American Chemical Society</i> , 1994, 116, 134-142	16.4	48
73	Spectroscopic and theoretical study of the molecular and electronic structures of a terthiophene-based quinodimethane. <i>ChemPhysChem</i> , 2004 , 5, 529-39	3.2	43
72	Electronic spectra of tetrathiafulvalene and its radical cation: analysis of the performance of the time-dependent DFT approach. <i>Chemical Physics Letters</i> , 2002 , 352, 491-498	2.5	43
71	Single-Component Donor-Acceptor Organic Semiconductors Derived from TCNQ. <i>Journal of Organic Chemistry</i> , 1994 , 59, 4618-4629	4.2	42
70	Magnetic Properties of Quinoidal Oligothiophenes: More Than Good Candidates for Ambipolar Organic Semiconductors?. <i>Advanced Functional Materials</i> , 2006 , 16, 531-536	15.6	41
69	A Theoretical Study of the Mechanism of the Hydride Transfer Reaction between Alkanes and Alkenes Catalyzed by an Acidic Zeolite. <i>Journal of Physical Chemistry A</i> , 1998 , 102, 9863-9868	2.8	41
68	Tuning the electronic properties of nonplanar exTTF-based push-pull chromophores by aryl substitution. <i>Journal of Organic Chemistry</i> , 2012 , 77, 10707-17	4.2	40
67	Electronic Transitions in Tetrathiafulvalene and Its Radical Cation: A Theoretical Contribution. <i>Journal of Physical Chemistry A</i> , 2002 , 106, 631-640	2.8	40
66	Theoretical Study on the Mechanism of the Superacid-Catalyzed Unimolecular Isomerization of n-Butane and 1-Butene. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 633-637		39

65	Theoretical Study of Bimolecular Reactions between Carbenium Ions and Paraffins: The Proposal of a Common Intermediate for Hydride Transfer, Disproportionation, Dehydrogenation, and Alkylation. <i>Journal of Physical Chemistry B</i> , 1999 , 103, 7809-7821	3.4	38
64	Flexibility of TTF. a theoretical study. Synthetic Metals, 1999, 103, 1991-1992	3.6	34
63	Influence of Benzoannulation on the Molecular and Electronic Structures of Tetracyanoquinodimethanes. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 6138-6146		34
62	Magnetic and Conductive Properties of Quinoidal Oligothiophenes. <i>Chemistry of Materials</i> , 2006 , 18, 1539-1545	9.6	32
61	Theoretical Study on the Mechanism of the Hydride Transfer Reaction between Alkanes and Alkylcarbenium Ions. <i>Journal of Physical Chemistry B</i> , 1997 , 101, 10069-10074	3.4	31
60	Difficulties of density functional theory in predicting the torsional potential of 2,2?-bithiophene 1998 , 70, 303-312		31
59	Oligothienoacenes versus oligothiophenes: impact of ring fusion on the optical properties. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 1457-65	3.6	30
58	Ab initio and density-functional theory study of zeolite-catalyzed hydrocarbon reactions: hydride transfer, alkylation and disproportionation. <i>Physical Chemistry Chemical Physics</i> , 2000 , 2, 3327-3333	3.6	30
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56	A theoretical study of the interaction of acetylene with copper and silver monoions. <i>The Journal of Physical Chemistry</i> , 1988 , 92, 4853-4859		30
55	ExTTF-based dyes absorbing over the whole visible spectrum. Organic Letters, 2011, 13, 604-7	6.2	28
54	Highly conjugated p-quinonoid pi-extended tetrathiafulvalene derivatives: a class of highly distorted electron donors. <i>Chemistry - A European Journal</i> , 2004 , 10, 2067-77	4.8	27
53	Raman and theoretical study of the solvent effects on the sizable intramolecular charge transfer in the push-pull 5-(dimethylamino)-5Snitro-2,2Sbithiophene. <i>Journal of Physical Chemistry A</i> , 2005 , 109, 8724-31	2.8	26
52	Cluster and periodic calculations of the ethene protonation reaction catalyzed by theta-1 zeolite: influence of method, model size, and structural constraints. <i>Chemistry - A European Journal</i> , 2001 , 7, 1	29 \$ -§03	3 ²⁶
51	The skeletal isomerization of but-1-ene catalyzed by theta-1 zeolite. <i>Physical Chemistry Chemical Physics</i> , 2001 , 3, 3235-3239	3.6	26
50	Synthesis and Characterization of Novel Donor-Acceptor Naphthoquinone Derivatives with Photoinduced Charge-Transfer Properties. A Joint Experimental and Theoretical Study. <i>Journal of Organic Chemistry</i> , 1995 , 60, 5643-5650	4.2	25
49	Controlled self-assembly of electron donor nanotubes. <i>Organic Letters</i> , 2009 , 11, 4524-7	6.2	24
48	Neutral and oxidized triisopropylsilyl end-capped oligothienoacenes: a combined electrochemical, spectroscopic, and theoretical study. <i>Chemistry - A European Journal</i> , 2010 , 16, 5481-91	4.8	24

(2009-2003)

47	First signals of electrochemically oxidized species of TTF and TTM-TTF: A study by in situ spectroelectrochemical FTIR and DFT calculations. <i>Physical Chemistry Chemical Physics</i> , 2003 , 5, 4672-46	79 ⁶	24	
46	A Theoretical Study on the Mechanism of the Superacid-Catalyzed Unimolecular Isomerization of n-Alkanes and n-Alkenes. Comparison between ab Initio and Density Functional Results. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 16514-16521		23	
45	Helical supramolecular polymerization of C3-symmetric amides and retroamides: on the origin of cooperativity and handedness. <i>Chemical Communications</i> , 2016 , 52, 6907-10	5.8	21	
44	Functionalized pentacenes: a combined theoretical, Raman and UVIV is spectroscopic study. <i>Theoretical Chemistry Accounts</i> , 2011 , 128, 521-530	1.9	19	
43	Mesitylthio-oligothiophenes in various redox states. Molecular and electronic views as offered by spectroscopy and theory. <i>Journal of Physical Chemistry A</i> , 2005 , 109, 11275-84	2.8	19	
42	Lowest triplet excited states of a novel heteroleptic iridium(III) complex and their role in the emission colour. <i>Computational and Theoretical Chemistry</i> , 2009 , 912, 21-26		17	
41	Synthesis and Characterization of 11,11,12,12-Tetracyano-1,4-anthraquinodimethanes (1,4-TCAQs): Novel Electron Acceptors with Photoinduced Charge-Transfer Properties. <i>Journal of Organic Chemistry</i> , 1995 , 60, 4077-4084	4.2	17	
40	Theoretical study of the mechanism of branching rearrangement of carbenium ions. <i>Applied Catalysis A: General</i> , 1996 , 146, 207-223	5.1	17	
39	Structural incorporation of nitrogen into zeolites, and alpos: ab initio molecular orbital calculations on stability and basicity. <i>Journal of Molecular Catalysis A</i> , 1998 , 133, 241-250		16	
38	A New Type of Electron Donors with One Dithiole Unit: Substituted 7-(1,3-Dithiol-2-ylidene)-7-hydrobenz[d,e]anthracenes. <i>European Journal of Organic Chemistry</i> , 1999 , 1239-1247	3.2	16	
37	Synthesis, Characterization, and Theoretical Study of Sulfur-Containing Donor-Acceptor DCNQI Derivatives with Photoinduced Intramolecular Electron Transfer. <i>Journal of Organic Chemistry</i> , 1996 , 61, 3041-3054	4.2	16	
36	A quantum-chemical study of para/ortho-toluene alkylation by adsorbed methoxy species on zeolites. <i>Journal of Molecular Catalysis A</i> , 1995 , 100, 75-85		16	
35	Theoretical Studies of Chemical Interactions. Ab Initio Calculations on Lithium Dialkylamides and Their Carbonylation Reactions. <i>Journal of the American Chemical Society</i> , 1994 , 116, 10110-10116	16.4	14	
34	Synthesis, properties and charge transfer complexes of covalently attached [60]fullerene-tetrathiafulvalenes. <i>Journal of Physics and Chemistry of Solids</i> , 1997 , 58, 1713-1718	3.9	12	
33	Molecular precursors of mesostructured silica materials in the atrane route: A DFT/GIAO/NBO theoretical study. <i>Computational and Theoretical Chemistry</i> , 2007 , 822, 89-102		12	
32	Application of SQMFF Vibrational Calculations to Transition States: DFT and ab Initio Study of the Kinetics of Methyl Azide and Ethyl Azide Thermolysis. <i>Journal of Physical Chemistry A</i> , 1998 , 102, 1146-1	1 58	12	
31	Orbital-controlled reactions catalysed by zeolites: Electrophilic alkylation of aromatics. <i>Journal of Physical Organic Chemistry</i> , 1994 , 7, 364-370	2.1	12	
30	FT Raman and DFT study on a series of all-anti oligothienoacenes end-capped with triisopropylsilyl groups. <i>ChemPhysChem</i> , 2009 , 10, 3069-76	3.2	11	

29	UVIVis, IR, Raman and theoretical characterization of a novel quinoid oligothiophene molecular material. <i>Journal of Molecular Structure</i> , 2003 , 651-653, 665-673	3.4	10
28	From linear quaterthiophene to sulflower: A comparative theoretical study. <i>Computational and Theoretical Chemistry</i> , 2009 , 912, 27-31		9
27	Quantum chemistry calculations on the effect of electron confinement upon the frontier molecular orbitals of ethylene and benzene in sodalite. Implications on reactivity. <i>Chemical Physics Letters</i> , 1997 , 264, 565-572	2.5	9
26	Theoretical description of the Raman spectrum of a vinylene-bridged quaterthiophene oligomer. Journal of Molecular Structure, 2003 , 651-653, 657-664	3.4	9
25	The First sulfur-containing twin-DCNQI-type acceptor. Advanced Materials, 1994, 6, 765-768	24	9
24	Carbonyl-functionalized quaterthiophenes: a study of the vibrational Raman and electronic absorption/emission properties guided by theoretical calculations. <i>ChemPhysChem</i> , 2012 , 13, 168-76	3.2	8
23	Theoretical eht study of propene adsorption on model clusters of first series transition metal oxides and MgO. <i>Journal of Molecular Catalysis</i> , 1985 , 30, 81-93		8
22	A proposal for a branching mechanism in medium-sized cycloalkanes: MINDO/3 study of the hypersurface for isomerization of cyclohexylium to 1-methylcyclopentylium ion. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1986 , 49-53		8
21	Electrochemical molecular recognition of silvercation by electropolymerised thieno[3?,4?:5,6][1,4]dithiino[2,3-b]quinoxaline:a joint experimental and theoretical study. <i>Journal of Materials Chemistry</i> , 2000 , 10, 2458-2465		7
20	Effects of Carbon-sp3 Bridging on the Electronic Properties of Oligothiophenes. <i>Synthetic Metals</i> , 1999 , 101, 602-603	3.6	7
19	Molecular and electronic structure of a largely extended tetracyanoquinodimethane. <i>Synthetic Metals</i> , 1995 , 70, 1031-1032	3.6	7
18	A theoretical study of the molecular and electronic structure of benzoannulated tetracyanoquinodimethanes. <i>Journal of Materials Chemistry</i> , 1995 , 5, 1697-1705		7
17	Theoretical EHT study of propene adsorption on model clusters. <i>Journal of Molecular Catalysis</i> , 1986 , 34, 47-55		7
16	6,11-Bis(dicyanomethylene)-12-methylbenzo[b]phenoxazine and 6,11-dicyanimino-12-methylbenzo[b]phenoxazine as novel donorEcceptor systems. <i>Journal of Materials Chemistry</i> , 1995 , 5, 1563-1570		6
15	Theoretical EHT study of oxidative coupling of methane on pure MgO and MgO doped with Li and Na. <i>Journal of Molecular Catalysis</i> , 1991 , 64, 191-200		6
14	Molecular conformation and electronic structure of 1,1Sbipyrrole. an ab initio approach. <i>Chemical Physics Letters</i> , 1986 , 130, 285-290	2.5	6
13	Theoretical study of oligomeric alumatranes present in the chemistry of materials from micro to mesoporous molecular sieves and alumina composites. <i>Computational and Theoretical Chemistry</i> , 2008 , 850, 94-104		5
12	Theoretical and structural studies of lithium cyclic amide conformations. Monomers and aggregates. <i>Perkin Transactions II RSC</i> , 2000 , 1619-1624		5

LIST OF PUBLICATIONS

11	Theoretical eht study of isobutene adsorption on model clusters of first series transition metal oxides and MgO. <i>Journal of Molecular Catalysis</i> , 1988 , 43, 303-314		4
10	A study by spectroelectrochemical FTIR and density functional theory calculations of the reversible complexing ability of an electroactive tetrathiafulvalene crown. <i>Journal of Physical Chemistry A</i> , 2005 , 109, 1188-95	2.8	3
9	Theoretical insight on novel donor-acceptor exTTF-based dyes for dye-sensitized solar cells. <i>Journal of Molecular Modeling</i> , 2014 , 20, 2188	2	2
8	Diferrocenyl oligothiophene wires: Raman and quantum chemical study of valence-trapped cations. Journal of Chemical Physics, 2011 , 135, 234705	3.9	2
7	Theoretical calculations on the valence electronic structure of naphthalocyanine: comparison with experimental photoemission data. <i>Synthetic Metals</i> , 1993 , 57, 4513-4518	3.6	2
6	Valence electronic structure of C60: Theoretical analysis of photoemission data. <i>Synthetic Metals</i> , 1993 , 56, 3246-3251	3.6	2
5	Influence of nitrogen substitution on the electronic band structure of poly(peri-naphthalene). <i>Synthetic Metals</i> , 1995 , 69, 705-706	3.6	1
4	ISomerization of xylene: MINDO/3 study of the cyclization of benzenium cation into bicyclo[3.1.0]hexenyl cation. <i>Journal of Molecular Catalysis</i> , 1989 , 52, 277-295		1
3	Benzoannulated quinone-type electron acceptors: evolution of the molecular and electronic structures upon reduction. <i>Computational and Theoretical Chemistry</i> , 1998 , 426, 135-143		
2	Geometric and electronic structure of dithiapyranylidine: evolution upon oxidation. <i>Synthetic Metals</i> , 1993 , 57, 4572-4578	3.6	
1	MINDO/3 Study of the Rearrangement of 1-Methylcyclohexyl Cation to 1,2-Dimethylcyclopentyl Cation. <i>Journal of Computational Chemistry</i> , 1986 , 7, 417-427	3.5	