Raffaele Saladino

List of Publications by Year
in descending order

125	4,799	81839	114418
papers	citations	39 h-index	63 g-index

127	127	127	3973
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Multicomponent Reactions in the Synthesis of Antiviral Compounds. Current Medicinal Chemistry, 2022, 29, 2013-2050.	1.2	7
2	Lignin Nanoparticles Deliver Novel Thymine Biomimetic Photo-Adducts with Antimelanoma Activity. International Journal of Molecular Sciences, 2022, 23, 915.	1.8	9
3	Investigation of fungal biomolecules after Low Earth Orbit exposure: a testbed for the next Moon missions. Environmental Microbiology, 2022, , .	1.8	2
4	Laccase Mediator Cocktail System as a Sustainable Skin Whitening Agent for Deep Eumelanin Decolorization. International Journal of Molecular Sciences, 2022, 23, 6238.	1.8	5
5	A Threeâ€Way Regioselective Synthesis of Amino Acid Decorated Imidazole, Purine and Pyrimidine Derivatives by Multicomponent Chemistry Starting from Prebiotic Diaminomaleonitrile. European Journal of Organic Chemistry, 2022, 2022, .	1.2	2
6	Laccase-Catalyzed 1,4-Dioxane-Mediated Synthesis of Belladine N-Oxides with Anti-Influenza A Virus Activity. International Journal of Molecular Sciences, 2021, 22, 1337.	1.8	6
7	Aminomalononitrile inspired prebiotic chemistry as a novel multicomponent tool for the synthesis of imidazole and purine derivatives with anti-influenza A virus activity. RSC Advances, 2021, 11, 30020-30029.	1.7	11
8	Homogentisic Acid and Gentisic Acid Biosynthesized Pyomelanin Mimics: Structural Characterization and Antioxidant Activity. International Journal of Molecular Sciences, 2021, 22, 1739.	1.8	11
9	Nano-Structured Lignin as Green Antioxidant and UV Shielding Ingredient for Sunscreen Applications. Antioxidants, 2021, 10, 274.	2.2	81
10	Novel Nanoarchitectures Based on Lignin Nanoparticles for Electrochemical Eco-Friendly Biosensing Development. Nanomaterials, 2021, 11, 718.	1.9	9
11	Stereoselective Access to Antimelanoma Agents by Hybridization and Dimerization of Dihydroartemisinin and Artesunic acid. ChemMedChem, 2021, 16, 2270-2277.	1.6	8
12	Insoluble organic matter in chondrites: Archetypal melanin-like PAH-based multifunctionality at the origin of life?. Physics of Life Reviews, 2021, 37, 65-93.	1.5	18
13	Green and Scalable Preparation of Colloidal Suspension of Lignin Nanoparticles and Its Application in Eco-friendly Sunscreen Formulations. ACS Omega, 2021, 6, 21444-21456.	1.6	18
14	Oxidative Coupling of Coumarins by Blueâ€ŁEDâ€Đriven inâ€…situ Activation of Horseradish Peroxidase in a Twoâ€Łiquidâ€Phase System. ChemCatChem, 2021, 13, 4151-4158.	1.8	8
15	Dendrimeric Structures in the Synthesis of Fine Chemicals. Materials, 2021, 14, 5318.	1.3	3
16	Meteorite-catalyzed intermoleculartrans-glycosylation produces nucleosides under proton beam irradiation. RSC Advances, 2021, 11, 19258-19264.	1.7	6
17	Prebiotic Organic Chemistry of Formamide and the Origin of Life in Planetary Conditions: What We Know and What Is the Future. International Journal of Molecular Sciences, 2021, 22, 917.	1.8	15
18	Fungal biomarkers are detectable in Martian rock-analogues after space exposure: implications for the search of life on Mars. International Journal of Astrobiology, 2021, 20, 345-358.	0.9	8

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19	The role of borosilicate glass in Millerâ€“Urey experiment. Scientific Reports, 2021, 11, 21009.	1.6	19
20	Fungal Biomarkers Stability in Mars Regolith Analogues after Simulated Space and Mars-like Conditions. Journal of Fungi (Basel, Switzerland), 2021, 7, 859.	1.5	6
21	From chemical complexity to origin of life. Physics of Life Reviews, 2020, 32, 111-113.	1.5	0
22	Meteoriteâ€Assisted Phosphorylation of Adenosine Under Proton Irradiation Conditions. ChemSystemsChem, 2020, 2, e1900039.	1.1	10
23	Synthesis and Evaluation of Artemisinin-Based Hybrid and Dimer Derivatives as Antimelanoma Agents. ACS Omega, 2020, 5, 243-251.	1.6	20
24	Ariel â€“ a window to the origin of life on early earth?. Experimental Astronomy, 2020, , 1.	1.6	1
25	Lignin nanoparticles are renewable and functional platforms for the concanavalin a oriented immobilization of glucose oxidaseâ€“peroxidase in cascade bio-sensing. RSC Advances, 2020, 10, 29031-29042.	1.7	31
26	Highâ€Energy Protonâ€Beamâ€Induced Polymerization/Oxygenation of Hydroxynaphthalenes on Meteorites and Nitrogen Transfer from Urea: Modeling Insoluble Organic Matter?. Chemistry - A European Journal, 2020, 26, 14919-14928.	1.7	6
27	Dendrimer crown-ether tethered multi-wall carbon nanotubes support methyltrioxorhenium in the selective oxidation of olefins to epoxides. RSC Advances, 2020, 10, 17185-17194.	1.7	8
28	Biomimetic synthesis of galantamine via laccase/TEMPO mediated oxidative coupling. RSC Advances, 2020, 10, 10897-10903.	1.7	10
29	Oxidative Bio-Desulfurization by Nanostructured Peroxidase Mediator System. Catalysts, 2020, 10, 313.	1.6	15
30	Computational investigation of the primordial soup. Physics of Life Reviews, 2020, 34-35, 149-152.	1.5	2
31	Artemisinin Derivatives with Antimelanoma Activity Show Inhibitory Effect against Human DNA Topoisomerase 1. ACS Medicinal Chemistry Letters, 2020, 11, 1035-1040.	1.3	18
32	Layer by layer supported laccase on lignin nanoparticles catalyzes the selective oxidation of alcohols to aldehydes. Catalysis Science and Technology, 2019, 9, 4125-4134.	2.1	33
33	Astrochemistry and Astrobiology: Materials Sciencein Wonderland?. International Journal of Molecular Sciences, 2019, 20, 4079.	1.8	29
34	Enzyme-Lignin Nanocapsules Are Sustainable Catalysts and Vehicles for the Preparation of Unique Polyvalent Bioinks. Biomacromolecules, 2019, 20, 1975-1988.	2.6	29
35	SBA-15 Anchored Metal Containing Catalysts in the Oxidative Desulfurization Process. Catalysts, 2019, 9, 984.	1.6	41
36	Synthesis of Stilbene and Chalcone Inhibitors of Influenza A Virus by SBA-15 Supported Hoveyda-Grubbs Metathesis. Catalysts, 2019, 9, 983.	1.6	18

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37	A Universal Geochemical Scenario for Formamide Condensation and Prebiotic Chemistry. Chemistry - A European Journal, 2019, 25, 3181-3189.	1.7	59
38	Oxidative nucleophilic substitution selectively produces cambinol derivatives with antiproliferative activity on bladder cancer cell lines. Bioorganic and Medicinal Chemistry Letters, 2019, 29, 78-82.	1.0	12
39	L-DOPA-quinone Mediated Recovery from GIRK Channel Firing Inhibition in Dopaminergic Neurons. ACS Medicinal Chemistry Letters, 2019, 10, 431-436.	1.3	9
40	Silica Metal Oxide Vesicles Catalyze Comprehensive Prebiotic Chemistry. Chemistry - A European Journal, 2018, 24, 8126-8132.	1.7	43
41	Rewarming the Primordial Soup: Revisitations and Rediscoveries in Prebiotic Chemistry. ChemBioChem, 2018, 19, 22-25.	1.3	9
42	Formamide-based prebiotic chemistry in the Phlegrean Fields. Advances in Space Research, 2018, 62, 2372-2379.	1.2	23
43	Tyrosinase-Treated Hydroxytyrosol-Enriched Olive Vegetation Waste with Increased Antioxidant Activity Promotes Autophagy and Inhibits the Inflammatory Response in Human THP-1 Monocytes. Journal of Agricultural and Food Chemistry, 2018, 66, 12274-12284.	2.4	16
44	Iodoxybenzoic Acid Supported on Multi Walled Carbon Nanotubes as Biomimetic Environmental Friendly Oxidative Systems for the Oxidation of Alcohols to Aldehydes. Nanomaterials, 2018, 8, 516.	1.9	6
45	The Prevailing Catalytic Role of Meteorites in Formamide Prebiotic Processes. Life, 2018, 8, 6.	1.1	17
46	Functionalized Tyrosinase-Lignin Nanoparticles as Sustainable Catalysts for the Oxidation of Phenols. Nanomaterials, 2018, 8, 438.	1.9	41
47	Chemomimesis and Molecular Darwinism in Action: From Abiotic Generation of Nucleobases to Nucleosides and RNA. Life, 2018, 8, 24.	1.1	15
48	Layer-by-Layer Preparation of Microcapsules and Nanocapsules of Mixed Polyphenols with High Antioxidant and UV-Shielding Properties. Biomacromolecules, 2018, 19, 3883-3893.	2.6	40
49	Laccase-Mediated Enhancement of the Antioxidant Activity of Propolis and Poplar Bud Exudates. ACS Omega, 2017, 2, 2515-2523.	1.6	15
50	Advances in biotechnological synthetic applications of carbon nanostructured systems. Journal of Materials Chemistry B, 2017, 5, 6490-6510.	2.9	21
51	Tyrosinase mediated oxidative functionalization in the synthesis of DOPA-derived peptidomimetics with anti-Parkinson activity. RSC Advances, 2017, 7, 20502-20509.	1.7	13
52	Prebiotic synthesis of carboxylic acids, amino acids and nucleic acid bases from formamide under photochemical conditionsâ‹†. European Physical Journal Plus, 2017, 132, 1.	1.2	18
53	Regioselective IBX-Mediated Synthesis of Coumarin Derivatives with Antioxidant and Anti-influenza Activities. Journal of Natural Products, 2017, 80, 3247-3254.	1.5	49
54	Proton irradiation: a key to the challenge of N-glycosidic bond formation in a prebiotic context. Scientific Reports, 2017, 7, 14709.	1.6	35

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55	Preparation of wrapped carbon nanotubes poly(4-vinylpyridine)/MTO based heterogeneous catalysts for the oxidative desulfurization (ODS) of model and synthetic diesel fuel. Applied Catalysis B: Environmental, 2017, 200, 392-401.	10.8	51
56	The key role of meteorites in the formation of relevant prebiotic molecules in a formamide/water environment. Scientific Reports, 2016, 6, 38888.	1.6	76
57	Emergence of the First Catalytic Oligonucleotides in a Formamideâ€Based Origin Scenario. Chemistry - A European Journal, 2016, 22, 3572-3586.	1.7	65
58	Prebiotic synthesis of nucleic acids and their building blocks at the atomic level â€“ merging models and mechanisms from advanced computations and experiments. Physical Chemistry Chemical Physics, 2016, 18, 20047-20066.	1.3	48
59	First Evidence on the Role of Heavy Ion Irradiation of Meteorites and Formamide in the Origin of Biomolecules. Origins of Life and Evolution of Biospheres, 2016, 46, 515-521.	0.8	34
60	A Global Scale Scenario for Prebiotic Chemistry: Silica-Based Self-Assembled Mineral Structures and Formamide. Biochemistry, 2016, 55, 2806-2811.	1.2	65
61	Carbon nanotubes supported tyrosinase in the synthesis of lipophilic hydroxytyrosol and dihydrocaffeoyl catechols with antiviral activity against DNA and RNA viruses. Bioorganic and Medicinal Chemistry, 2015, 23, 5345-5351.	1.4	33
62	Highly efficient synthesis of aldehydes by layer by layer multi-walled carbon nanotubes (MWCNTs) laccase mediator systems. Applied Catalysis A: General, 2015, 499, 77-88.	2.2	17
63	Meteorite-catalyzed syntheses of nucleosides and of other prebiotic compounds from formamide under proton irradiation. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E2746-55.	3.3	158
64	Current Advances in L-DOPA and DOPA-Peptidomimetics: Chemistry, Applications and Biological Activity. Current Medicinal Chemistry, 2015, 22, 4138-4165.	1.2	10
65	Current Advances in Prebiotic Chemistry Under Space Conditions. Current Organic Chemistry, 2015, 19, 1963-1979.	0.9	20
66	Intracellular Redox State as Target for Anti-Influenza Therapy: Are Antioxidants Always Effective?. Current Topics in Medicinal Chemistry, 2014, 14, 2529-2541.	1.0	42
67	Carbon Nanotubes as Activating Tyrosinase Supports for the Selective Synthesis of Catechols. ACS Catalysis, 2014, 4, 810-822.	5.5	50
68	Versatile and Efficient Immobilization of 2-Deoxyribose-5-phosphate Aldolase (DERA) on Multiwalled Carbon Nanotubes. ACS Catalysis, 2014, 4, 3059-3068.	5.5	26
69	Tyrosinase and Layer-by-Layer supported tyrosinases in the synthesis of lipophilic catechols with antiinfluenza activity. Bioorganic and Medicinal Chemistry, 2013, 21, 7699-7708.	1.4	30
70	Synthesis of 2â€²â€Deoxyâ€1â€²â€homoâ€Nâ€nucleosides with Antiâ€Influenza Activity by Catalytic Methyltrioxorhenium (MTO)/H₂O₂ Oxyfunctionalization. Chemistry - A European Journal, 2013, 19, 2392-2404.	1.7	19
71	Tannin Structural Elucidation and Quantitative ³¹P NMR Analysis. 1. Model Compounds. Journal of Agricultural and Food Chemistry, 2013, 61, 9307-9315.	2.4	45
72	Meteorites as Catalysts for Prebiotic Chemistry. Chemistry - A European Journal, 2013, 19, 16916-16922.	1.7	73

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73	Selective Synthesis of DOPA and DOPA Peptides by Native and Immobilized Tyrosinase in Organic Solvent. ChemPlusChem, 2013, 78, 325-330.	1.3	10
74	Dye Degradation by Layerâ€byâ€Layer Immobilised Peroxidase/Redox Mediator Systems. ChemCatChem, 2013, 5, 1407-1415.	1.8	19
75	Materials for the Onset. A story of necessity and chance.. Frontiers in Bioscience - Landmark, 2013, 18, 1275.	3.0	6
76	Synthesis of Aldehydes by Layerâ€byâ€Layer Immobilized Laccases in the Presence of Redox Mediators. ChemCatChem, 2012, 4, 1987-1996.	1.8	14
77	Genetics first or metabolism first? The formamide clue. Chemical Society Reviews, 2012, 41, 5526.	18.7	181
78	Generation of RNA Molecules by a Baseâ€Catalysed Clickâ€Like Reaction. ChemBioChem, 2012, 13, 999-1008.	1.3	53
79	Layer-by-Layer coated tyrosinase: An efficient and selective synthesis of catechols. Bioorganic and Medicinal Chemistry, 2012, 20, 157-166.	1.4	38
80	Formamide and the origin of life. Physics of Life Reviews, 2012, 9, 84-104.	1.5	226
81	A Novel Synthesis of Bioactive Catechols by Layerâ€byâ€Layer Immobilized Tyrosinase in an Organic Solvent Medium. ChemCatChem, 2012, 4, 89-99.	1.8	18
82	Milled Wood Lignin: A Linear Oligomer. Biomacromolecules, 2011, 12, 3928-3935.	2.6	255
83	The Effects of Borate Minerals on the Synthesis of Nucleic Acid Bases, Amino Acids and Biogenic Carboxylic Acids from Formamide. Origins of Life and Evolution of Biospheres, 2011, 41, 317-330.	0.8	42
84	Catalytic effects of Murchison Material: Prebiotic Synthesis and Degradation of RNA Precursors. Origins of Life and Evolution of Biospheres, 2011, 41, 437-451.	0.8	34
85	Novel multienzyme oxidative biocatalyst for lignin bioprocessing. Bioorganic and Medicinal Chemistry, 2011, 19, 5071-5078.	1.4	45
86	Photochemical Synthesis of Citric Acid Cycle Intermediates Based on Titanium Dioxide. Astrobiology, 2011, 11, 815-824.	1.5	33
87	The Role of the Formamide/Zirconia System in the Synthesis of Nucleobases and Biogenic Carboxylic Acid Derivatives. Journal of Molecular Evolution, 2010, 71, 100-110.	0.8	36
88	Chitin- and chitosan-anchored methyltrioxorhenium: An innovative approach for selective heterogeneous catalytic epoxidations of olefins. Journal of Catalysis, 2010, 276, 412-422.	3.1	23
89	Methyltrioxorhenium Catalysis in Nonconventional Solvents: A Great Catalyst in a Safe Reaction Medium. ChemSusChem, 2010, 3, 524-540.	3.6	55
90	An Efficient and Selective Epoxidation of Olefins with Novel Methyltrioxorhenium/(Fluorous) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 Td	2.1	17

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91	Oxidative functionalisation of lignin by layer-by-layer immobilised laccases and laccase microcapsules. Applied Catalysis A: General, 2010, 372, 115-123.	2.2	45
92	A novel and efficient synthesis of highly oxidized lignans by a methyltrioxorhenium/hydrogen peroxide catalytic system. Studies on their apoptogenic and antioxidant activity. Bioorganic and Medicinal Chemistry, 2009, 17, 5676-5682.	1.4	18
93	A novel and efficient catalytic epoxidation of monoterpenes by homogeneous and heterogeneous methyltrioxorhenium in ionic liquids. Applied Catalysis A: General, 2009, 360, 171-176.	2.2	33
94	Efficient oxidation of thiophene derivatives with homogeneous and heterogeneous MTO/H2O2 systems: A novel approach for, oxidative desulfurization (ODS) of diesel fuel. Applied Catalysis B: Environmental, 2009, 89, 239-245.	10.8	85
95	From formamide to RNA: the roles of formamide and water in the evolution of chemical information. Research in Microbiology, 2009, 160, 441-448.	1.0	61
96	A selective de-O-methylation of guaiacyl lignans to corresponding catechol derivatives by 2-iodoxybenzoic acid (IBX). The role of the catechol moiety on the toxicity of lignans. Organic and Biomolecular Chemistry, 2009, 7, 2367.	1.5	26
97	A Novel and Efficient Synthesis of Tocopheryl Quinones by Homogeneous and Heterogeneous Methyltrioxorhenium/Hydrogen Peroxide Catalytic Systems. Advanced Synthesis and Catalysis, 2008, 350, 321-331.	2.1	24
98	Ionic liquids in methyltrioxorhenium catalyzed epoxidationâ€“methanolysis of glycals under homogeneous and heterogeneous conditions. Journal of Molecular Catalysis A, 2008, 284, 108-115.	4.8	13
99	Synthesis and Degradation of Nucleic Acid Components by Formamide and Iron Sulfur Minerals. Journal of the American Chemical Society, 2008, 130, 15512-15518.	6.6	81
100	Nucleoside Phosphorylation by Phosphate Minerals. Journal of Biological Chemistry, 2007, 282, 16729-16735.	1.6	110
101	Formamide Chemistry and the Origin of Informational Polymers. Chemistry and Biodiversity, 2007, 4, 694-720.	1.0	118
102	Catalytic MTO-based Câ€“H insertion reactions of hydrogen peroxide: an investigation on the polymeric support role in heterogeneous conditions. Topics in Catalysis, 2006, 40, 221-227.	1.3	27
103	Origin of Informational Polymers: The Concurrent Roles of Formamide and Phosphates. ChemBioChem, 2006, 7, 1707-1714.	1.3	56
104	Origin of Informational Polymers. Journal of Biological Chemistry, 2006, 281, 5790-5796.	1.6	45
105	Methyltrioxorhenium catalysed synthesis of highly oxidised aryltetralin lignans with anti-topoisomerase II and apoptogenic activities. Bioorganic and Medicinal Chemistry, 2005, 13, 5949-5960.	1.4	14
106	Synthesis and Degradation of Nucleic Acid Components by Formamide and Cosmic Dust Analogues. ChemBioChem, 2005, 6, 1368-1374.	1.3	64
107	Origin of Informational Polymers. Journal of Biological Chemistry, 2005, 280, 35658-35669.	1.6	25
108	Advances in the Prebiotic Synthesis of Nucleic Acids Bases: Implications for the Origin of Life. Current Organic Chemistry, 2004, 8, 1425-1443.	0.9	83

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109	Synthesis and Degradation of Nucleobases and Nucleic Acids by Formamide in the Presence of Montmorillonites. ChemBioChem, 2004, 5, 1558-1566.	1.3	87
110	A novel oxidative side-chain transformation of Î±-amino acids and peptides by methyltrioxorhenium/H2O2 system. Tetrahedron Letters, 2004, 45, 9237-9240.	0.7	18
111	One-Pot TiO2-Catalyzed Synthesis of Nucleic Bases and Acyclonucleosides from Formamide: Implications for the Origin of Life. ChemBioChem, 2003, 4, 514-521.	1.3	122
112	Selective epoxidation of monoterpenes with H2O2 and polymer-supported methylrheniumtrioxide systems. Tetrahedron, 2003, 59, 7403-7408.	1.0	52
113	Preparation and Structural Characterization of Polymer-Supported Methylrhenium Trioxide Systems as Efficient and Selective Catalysts for the Epoxidation of Olefins. Journal of Organic Chemistry, 2002, 67, 1323-1332.	1.7	81
114	Selective oxidation of phenol and anisole derivatives to quinones with hydrogen peroxide and polymer-supported methylrhenium trioxide systems. Tetrahedron, 2002, 58, 8493-8500.	1.0	92
115	A new and efficient Baeyerâ€“Villiger rearrangement of flavanone derivatives by the methyltrioxorhenium/H2O2 catalytic system. Tetrahedron Letters, 2001, 42, 5401-5404.	0.7	48
116	A possible prebiotic synthesis of purine, adenine, cytosine, and 4(3H)-pyrimidinone from formamide implications for the origin of life. Bioorganic and Medicinal Chemistry, 2001, 9, 1249-1253.	1.4	187
117	Selective Oxidation of Uracil and Adenine Derivatives by the Catalytic System MeReO3/H2O2 and MeReO3/Urea Hydrogen Peroxide. Tetrahedron, 2000, 56, 10031-10037.	1.0	37
118	A new and efficient synthesis of ortho- and para-benzoquinones of cardanol derivatives by the catalytic system MeReO3â€“H2O2. Journal of the Chemical Society, Perkin Transactions 1, 2000, , 581-586.	1.3	39
119	Mechanism of Degradation of Purine Nucleosides by Formamide. Implications for Chemical DNA Sequencing Proceduresâ€. Journal of the American Chemical Society, 1996, 118, 5615-5619.	6.6	43
120	Transformations of thiopyrimidine and thiopurine nucleosides following oxidation with dimethyldioxirane. Tetrahedron, 1996, 52, 6759-6780.	1.0	29
121	On the binding site of quinolone antibacterials. An attempt to probe the shen model. Bioorganic and Medicinal Chemistry Letters, 1996, 6, 2333-2338.	1.0	6
122	Ozonation of thionucleosides. A new chemical transformation of 4-thiouracil and 6-thioguanine nucleosides to cytosine and adenosine counterparts. Tetrahedron, 1995, 51, 3607-3616.	1.0	18
123	Oxidation of substituted 2-thiouracils and pyrimidine-2-thione with ozone and 3,3-dimethyl-1,2-dioxirane.. Tetrahedron, 1994, 50, 3259-3272.	1.0	25
124	Dimethyldioxirane oxidations: A new and efficient desulfurization of thiopyrimidine and thiopurine nucleosides.. Tetrahedron Letters, 1993, 34, 7785-7788.	0.7	16
125	On the Prebiotic Synthesis of Nucleobases, Nucleotides, Oligonucleotides, Pre-RNA and Pre-DNA Molecules. , 0, , 29-68.		39