

Bayram GÃ¼ndÃ¼z

List of Publications by Year in descending order

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112
papers

1,691
citations

304743

22
h-index

361022

35
g-index

112
all docs

112
docs citations

112
times ranked

1606
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis and characterization of Ce-substituted hydroxyapatite by sol-gel method. <i>Materials Science and Engineering C</i> , 2014, 42, 78-82.	7.3	81
2	Electrical and photoconductivity properties of p-Si/P3HT/Al and p-Si/P3HT:MEH-PPV/Al organic devices: Comparison study. <i>Microelectronic Engineering</i> , 2012, 98, 41-57.	2.4	77
3	Strontium substituted hydroxyapatites: Synthesis and determination of their structural properties, in vitro and in vivo performance. <i>Materials Science and Engineering C</i> , 2015, 55, 538-546.	7.3	72
4	Sol-gel synthesis and characterization of Sr/Mg, Mg/Zn and Sr/Zn co-doped hydroxyapatites. <i>Materials Letters</i> , 2015, 141, 161-164.	2.6	67
5	Controlling of electrical characteristics of Al/p-Si Schottky diode by tris(8-hydroxyquinolino) aluminum organic film. <i>Synthetic Metals</i> , 2010, 160, 2559-2563.	3.9	57
6	Effects of molarity and solvents on the optical properties of the solutions of tris[4-(5-dicyanomethylidenemethyl-2-thienyl)phenyl]amine (TDCV-TPA) and structural properties of its film. <i>Optical Materials</i> , 2013, 36, 425-436.	3.6	54
7	Structural and dielectric properties of yttrium-substituted hydroxyapatites. <i>Materials Science and Engineering C</i> , 2015, 47, 333-338.	7.3	54
8	Optical properties of poly[2-methoxy-5-(3,7-dimethyloctyloxy)-1,4-phenylenevinylene] light-emitting polymer solutions: effects of molarities and solvents. <i>Polymer Bulletin</i> , 2015, 72, 3241-3267.	3.3	52
9	Physical and optical properties of DCJTb dye for OLED display applications: Experimental and theoretical investigation. <i>Journal of Molecular Structure</i> , 2017, 1137, 403-411.	3.6	38
10	Controlling the optical properties of polyaniline doped by boric acid particles by changing their doping agent and initiator concentration. <i>Applied Surface Science</i> , 2017, 424, 345-351.	6.1	35
11	Experimental and theoretical studies of the structural, electronic and optical properties of BCzVB organic material. <i>Optik</i> , 2019, 182, 611-617.	2.9	33
12	Photonic, spectroscopic properties and electronic structure of PTCDI-C8 organic nanostructure. <i>Vibrational Spectroscopy</i> , 2018, 96, 46-51.	2.2	31
13	Bioactive contents, <i>in vitro</i> antiradical, antimicrobial and cytotoxic properties of rhubarb (<i>Rheum ribes</i> L.) extracts. <i>Natural Product Research</i> , 2020, 34, 3353-3357.	1.8	31
14	Time-dependent wave packet and quasiclassical trajectory study of the $C(P3)+OH(X\hat{\epsilon}\%0\hat{1}2)\hat{a}t'CO(X\hat{\epsilon}\%0\hat{1}1+)+H(S2)$ reaction at the state-to-state level. <i>Journal of Chemical Physics</i> , 2009, 130, 194303.	3.0	30
15	Effects of channel widths, thicknesses of active layer on the electrical and photosensing properties of the 6,13-bis(triisopropylsilylethynyl) pentacene transistors by thermal evaporation method: Comparison study. <i>Synthetic Metals</i> , 2012, 162, 1210-1239.	3.9	30
16	Electronic, optical, and spectroscopic analysis of TBADN organic semiconductor: Experiment and theory. <i>Chemical Physics Letters</i> , 2017, 678, 130-138.	2.6	30
17	In vitro characterization of polyvinyl alcohol assisted hydroxyapatite derived by sol-gel method. <i>Materials Science and Engineering C</i> , 2014, 35, 239-244.	7.3	29
18	Controlling of dielectrical properties of hydroxyapatite by ethylenediamine tetraacetic acid (EDTA) for bone healing applications. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 129, 268-273.	3.9	29

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19	Effects of UV and white light illuminations on photosensing properties of the 6,13-bis(triisopropylsilylethynyl)pentacene thin film transistor. <i>Sensors and Actuators A: Physical</i> , 2012, 178, 141-153.	4.1	28
20	Synthesis, characterization and significant optoelectronic parameters of 1-(7-methoxy-1-benzofuran-2-yl) substituted chalcone derivatives. <i>Journal of Molecular Structure</i> , 2019, 1178, 261-267.	3.6	27
21	Structural and Dielectrical Properties of Ag- and Ba-Substituted Hydroxyapatites. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2014, 24, 1001-1008.	3.7	26
22	Synthesis, characterization of poly(E)-3-amino-4-((3-bromophenyl)diazenyl)-1H-pyrazol-5-ol: Investigation of antibacterial activity, fluorescence, and optical properties. <i>Fibers and Polymers</i> , 2012, 13, 415-424.	2.1	24
23	The effect of simulating body fluid on the structural properties of hydroxyapatite synthesized in the presence of citric acid. <i>Progress in Biomaterials</i> , 2016, 5, 173-182.	4.5	24
24	The photo-electrical properties of the p-Si/Fe(II)â€“polymeric complex/Au diode. <i>Synthetic Metals</i> , 2013, 184, 73-82.	3.9	23
25	Quantum and quasi-classical calculations for the $S_{+} + H_{2}(v,j) \rightarrow SH_{+}(v_{i},j_{i}) + H$ reactive collisions. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 11391-11400.	2.8	23
26	Synthesis and characterization of Na ₂ Oâ€“CaOâ€“SiO ₂ glassâ€“ceramic. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014, 117, 223-227.	3.6	22
27	Investigation of the spectral, optical and surface morphology properties of the N ₂ -Dipentyl-3,4,9,10-perylenedicarboximide small molecule for optoelectronic applications. <i>Polymers for Advanced Technologies</i> , 2016, 27, 144-155.	3.2	22
28	Accurate time dependent wave packet calculations for the N + OH reaction. <i>Journal of Chemical Physics</i> , 2011, 135, 104307.	3.0	21
29	Temperature dependent structural and vibrational properties of hydroxyapatite: A theoretical and experimental study. <i>Ceramics International</i> , 2017, 43, 15899-15904.	4.8	20
30	Surface morphology, spectroscopy, optical and conductivity properties of transparent poly(9-vinylcarbazole) thin films modified with graphene oxide. <i>Synthetic Metals</i> , 2019, 252, 1-7.	3.9	20
31	New Schottky diode based entirely on nickel aluminate spinel/p-silicon using the solâ€“gel spin coating approach. <i>Superlattices and Microstructures</i> , 2013, 64, 167-177.	3.1	19
32	Synthesis of non-peripherally tetra-substituted copper(II) phthalocyanines: characterization, optical and surface properties, fabrication and photo-electrical properties of a photosensitive diode. <i>Dalton Transactions</i> , 2019, 48, 14839-14852.	3.3	19
33	Optoelectronic parameters of peripherally tetra-substituted copper(II) phthalocyanines and fabrication of a photoconductive diode for various conditions. <i>New Journal of Chemistry</i> , 2020, 44, 369-380.	2.8	19
34	Determination of Optical Constants of Nanocluster CdO Thin Films Deposited by Sol-Gel Technique. <i>Acta Physica Polonica A</i> , 2014, 126, 798-808.	0.5	18
35	Quantum Effects on the $D + H_{3}^{+} \rightarrow H_{2}D^{+} + H$ Deuteration Reaction and Isotopic Variants. <i>Journal of Physical Chemistry A</i> , 2019, 123, 8766-8775.	2.5	18
36	Ce/Sm co-doped hydroxyapatites: synthesis, characterization, and band structure calculation. <i>Journal of the Australian Ceramic Society</i> , 2021, 57, 305-317.	1.9	18

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37	Investigation of the effects of Pr doping on the structural properties of hydroxyapatite: an experimental and theoretical study. <i>Journal of the Australian Ceramic Society</i> , 2020, 56, 1501-1513.	1.9	17
38	Accurate quantum wave packet calculations for the F + HCl → Cl + HF reaction on the ground $12A_1'$ potential energy surface. <i>Journal of Chemical Physics</i> , 2012, 136, 104304.	3.0	15
39	Change of optoelectronic parameters of the boric acid-doped polyaniline conducting polymer with concentration. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017, 532, 263-269.	4.7	15
40	The effects of gamma irradiation on non-isothermal crystallization kinetics and microhardness of the Li ₂ O-Al ₂ O ₃ -SiO ₂ glass-ceramic. <i>Journal of Thermal Analysis and Calorimetry</i> , 2010, 102, 681-684.	3.6	14
41	Phytochemical Compounds and Biological Activities of <i>Celtis tournefortii</i> Fruits. <i>Analytical Chemistry Letters</i> , 2017, 7, 344-355.	1.0	14
42	Comparison of spectroscopic, electronic, theoretical, optical and surface morphological properties of functional manganese(III) phthalocyanine compounds for various conditions. <i>Journal of Molecular Structure</i> , 2019, 1193, 247-264.	3.6	14
43	Synthesis, characterization of poly(2-(2-hydroxybenzylideneamino)phenyl-4,5,6,7-tetrahydrobenzo[<i>b</i>]thiophene-3-carbonitrile): Investigation of antibacterial activity and optical properties. <i>Polymer Engineering and Science</i> , 2012, 52, 1581-1589.	3.1	13
44	Study of structural, optical properties and electronic structure of PTCDI-C5 organic nanostructure. <i>Chemical Physics Letters</i> , 2018, 691, 14-21.	2.6	13
45	Controlling of photoresponse properties of pentacene thin film phototransistors by dielectric layer thickness and channel widths. <i>Synthetic Metals</i> , 2013, 179, 94-115.	3.9	12
46	Controlling of spectral and optical parameters of the F8T2 liquid-crystalline polymer (LCP) by molarity for optoelectronic devices. <i>Optik</i> , 2015, 126, 4566-4573.	2.9	12
47	Unsymmetrical pyrazole-based new semiconductor oligomer: synthesis and optical properties. <i>Polymer Bulletin</i> , 2017, 74, 2593-2604.	3.3	12
48	The effects of urea content on the structural, thermal and morphological properties of MgO nanopowders. <i>Ceramics International</i> , 2018, 44, 14523-14527.	4.8	12
49	Synthesis and characterization of Fe-containing biphasic calcium phosphate ceramics. <i>Journal of the Australian Ceramic Society</i> , 2019, 55, 381-385.	1.9	12
50	Phytochemical compounds and antiradical, antimicrobial, and cytotoxic activities of the extracts from <i>Hypericum scabrum</i> L. Flowers. <i>Natural Product Research</i> , 2020, 34, 714-719.	1.8	12
51	Quantum wave packet calculation of reaction probabilities, cross sections, and rate constants for the C(1D) + HD reaction. <i>International Journal of Quantum Chemistry</i> , 2005, 105, 478-484.	2.0	11
52	Ab initio studies of the Rg + NO + (X ¹ Σ ⁺) van der Waals complexes (Rg = He, Ne, Ar, Kr, and Xe). <i>Journal of Chemical Physics</i> , 2016, 144, 204303.	3.0	11
53	Optoelectronic parameters of TBADN organic molecule: New aspect to solution technique. <i>Optics and Laser Technology</i> , 2017, 91, 130-137.	4.6	11
54	Synthesis, characterization, and optical and surface properties of (4-(trifluoromethylthio)phenoxy)copper(II) phthalocyanine. <i>New Journal of Chemistry</i> , 2018, 42, 6013-6022.	2.8	11

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55	Controlling of dielectric parameters of insulating hydroxyapatite by simulated body fluid. <i>Materials Science and Engineering C</i> , 2015, 46, 118-124.	7.3	9
56	A study on refractive index dispersion and optoelectronic parameters of the BCzVB OLED material by using solution method. <i>Optical and Quantum Electronics</i> , 2016, 48, 1.	3.3	9
57	An experimental and theoretical investigation of the structure of synthesized ZnO powder. <i>Chemical Physics</i> , 2018, 513, 273-279.	1.9	9
58	Synthesis and Structures of Fe(II), Zn(II) and Pd(II) Complexes with a Schiff Base Derived from Methyl 2-Amino-6-Methyl-4,5,6,7-Tetrahydrothieno[2,3-c] Pyridine-3-Carboxylate and Comparison of Their Optical Constants for Different Solvents and Molarities. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2017, 12, 1028-1040.	0.5	9
59	Influence of ro-vibrational and isotope effects on the dynamics of the C(³ P) + OD(²) ⁺ CO(¹) ⁺ reaction. <i>Molecular Physics</i> , 2011, 109, 543-550.		
60	Exchange and Inelastic OH ⁺ + H Collisions on the Doublet and Quartet Electronic States. <i>Journal of Physical Chemistry A</i> , 2015, 119, 12082-12089.	2.5	8
61	Preparation and characterization of monetites co-doped with Ni/Al, Ni/Mn and Al/Mn. <i>Materials Letters</i> , 2017, 201, 39-42.	2.6	8
62	Electronic structure, optical and structural properties of organic 5,5-Dibromo-2,2-bithiophene. <i>Optik</i> , 2018, 165, 370-379.	2.9	8
63	Surface Morphology Properties of the 5,5-Di(4-biphenyl)-2,2-bithiophene (PPTTP) Nanofiber Film and Calculations of the Optical Parameters of the PPTTP Nanofiber Optoelectronic Devices. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2015, 10, 1-8.	0.5	8
64	A detailed study on the optical properties of 3-benzoyl-7-hydroxy coumarin compound in different solvents and concentrations. <i>Macedonian Journal of Chemistry and Chemical Engineering</i> , 2019, 38, 227.	0.6	8
65	Theoretical and experimental characterization of Sn-based hydroxyapatites doped with Bi. <i>Journal of the Australian Ceramic Society</i> , 2022, 58, 803-815.	1.9	8
66	Quantum wave packet study of N(2D) + H ₂ reactive scattering. <i>International Journal of Quantum Chemistry</i> , 2006, 106, 833-838.	2.0	7
67	Photofield effect and photoresponse properties of the transparent oxide-based BaInZnO thin-film transistors. <i>Sensors and Actuators A: Physical</i> , 2013, 193, 1-12.	4.1	7
68	Quantum mechanical calculations of state-to-state cross sections and rate constants for the F + DCl ⁺ Cl + DF reaction. <i>Journal of Chemical Physics</i> , 2015, 142, 214310.	3.0	7
69	A quantum wave packet study of three-dimensional inelastic scattering: He ⁺ H ₂ . <i>Molecular Physics</i> , 2002, 100, 561-567.	1.7	6
70	Sensing Properties of the β -Dipentyl-3,4,9, 10-Perylenedicarboximide Small Molecule for Different Concentrations and Solvents for Sensor Applications. <i>Sensor Letters</i> , 2015, 13, 52-63.	0.4	6
71	Transparent ultraviolet photodiodes based conductive gallium-indium-oxide films/p-type silicon for solar panel tracking systems. <i>Sensors and Actuators A: Physical</i> , 2015, 234, 212-222.	4.1	6
72	Synthesis, Characterization, Optical Transition and Dielectric Properties of the Schiff Base Ligand and Its Cobalt(II) and Palladium(II) Complexes. <i>Journal of Electronic Materials</i> , 2019, 48, 7131-7138.	2.2	6

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73	Effects of solvents on photonic and fluorescence properties of PtOEP phosphorescent material: Experimental and computational analysis. <i>Journal of Molecular Liquids</i> , 2020, 316, 113865.	4.9	6
74	Investigation of the structural and thermal properties of Y, Ag and Ce-assisted SiO ₂ -Na ₂ O-CaO-P ₂ O ₅ -based glasses derived by sol-gel method. <i>Journal of Thermal Analysis and Calorimetry</i> , 2017, 128, 765-770.	3.6	5
75	Photophysical, spectroscopic properties and electronic structure of BND: Experiment and theory. <i>Synthetic Metals</i> , 2018, 246, 39-44.	3.9	5
76	Required theoretical and experimental physical characteristics of tris[4-(diethylamino)phenyl] amine organic material. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 16111-16119.	2.2	5
77	The effects of gamma irradiation on dielectric properties of Ag/Gd co-doped hydroxyapatites. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 10443-10453.	2.2	5
78	A combined experimental and DFT/TD-DFT studies on the electronic structure, structural and optical properties of quinoline derivatives. <i>Journal of Molecular Modeling</i> , 2020, 26, 131.	1.8	5
79	Investigation of the effects of Ni-doping on the structural and thermal properties of ZnAl ₂ O ₄ spinels prepared by wet chemical method. <i>Journal of the Australian Ceramic Society</i> , 2021, 57, 1155-1162.	1.9	5
80	NTCDA compounds of optoelectronic interest: Theoretical insights and experimental investigation. <i>Chemical Physics Letters</i> , 2021, 780, 138918.	2.6	5
81	Structural, Optical, Dielectric and Magnetic Properties of Double Perovskite Oxides A ₂ FeTiO ₆ (A = Zn, Tl). <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 10443-10453.	3.0	5
82	A quantum wave packet study of He-H ₂ inelastic scattering. <i>International Journal of Quantum Chemistry</i> , 2000, 79, 274-279.	2.0	4
83	The effect of gamma-ray irradiation on the electrical conductivity of CuO-PbO glasses. <i>Radiation Effects and Defects in Solids</i> , 2011, 166, 100-103.	1.2	4
84	Synthesis, characterization, surface morphology properties and effects of annealing temperature on optical properties of poly(2-(((5-phenyl-1,3,4-thiadiazole-2-yl)imino)methyl)phenyl methacrylate) (PTMPMA). <i>Polymer Bulletin</i> , 2014, 71, 2945-2961.	3.3	4
85	Synthesis and characterization of conjugated polymers containing phenyl and bithiophene: controlling of optical properties with molarity. <i>Colloid and Polymer Science</i> , 2016, 294, 339-345.	2.1	4
86	Comparison of experimental photonic and refractive index characteristics of the TBADN films with their theoretical counterparts. <i>Chemical Physics Letters</i> , 2018, 696, 12-18.	2.6	4
87	A new synthesis of limonene copolymer: experimental and theoretical analysis. <i>Polymer Bulletin</i> , 2019, 76, 3297-3327.	3.3	4
88	Sensing and surface morphological properties of a poly[(9,9-dioctylfluorenyl-2,7-diyl)co-(bithiophene)] liquid-crystalline polymer for optoelectronic applications. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	2.6	3
89	Controlling of the optical properties of the solutions of the PTCDI-C8 organic semiconductor. <i>Electronic Materials Letters</i> , 2016, 12, 773-778.	2.2	3
90	Axially phenoxy-derivative disubstituted phthalocyanine: synthesis, characterization and photophysical properties. <i>Research on Chemical Intermediates</i> , 2018, 44, 6197-6217.	2.7	3

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91	Combustion synthesis and characterization of Mg-based Fe-doped biphasic calcium phosphate ceramics. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	2.3	3
92	A Study on the Optoelectronic Parameters of 4-Chloromethyl-7-Hydroxy Coumarin in Various Solvents and Concentrations. <i>Journal of the Turkish Chemical Society, Section A: Chemistry</i> , 2021, 8, 155-162.	1.1	3
93	A quantum wavepacket study of three-dimensional Ne ⁺ H ⁺ scattering. <i>Molecular Physics</i> , 2003, 101, 1901-1909.	1.7	2
94	Phytochemical Composition, Antiradical, Antiproliferative and Antimicrobial Activities of Capsicum frutescens L.. <i>Analytical Chemistry Letters</i> , 2018, 8, 642-652.	1.0	2
95	Thermal and structural characterization of the kidney stone. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 139, 3843-3846.	3.6	2
96	Possible Formation and Destruction of the OD ⁺ Ions in the Interstellar Medium. <i>Journal of Physical Chemistry A</i> , 2020, 124, 6552-6561.	2.5	2
97	Structural and thermal properties of Zn-containing magnesium aluminate spinels obtained by wet chemical method. <i>Materials Science-Poland</i> , 2019, 37, 238-243.	1.0	2
98	Quantum wave packet study of O(1D)+HCl(v)+ClO(v)+H reaction. <i>International Journal of Quantum Chemistry</i> , 1999, 73, 425-432.	2.0	1
99	TIME-DEPENDENT QUANTUM MECHANICAL TREATMENT OF He ⁺ CO INELASTIC SCATTERING. <i>Journal of Theoretical and Computational Chemistry</i> , 2004, 03, 291-303.	1.8	1
100	Existence of the transformation operator by the decomposition method. <i>Applicable Analysis</i> , 2005, 84, 713-719.	1.3	1
101	Time-Dependent Quantum Wave Packet Calculations of Three-Dimensional He ⁺ O ₂ Inelastic Scattering. <i>Journal of Chemical Theory and Computation</i> , 2006, 2, 59-63.	5.3	1
102	Determination of optical constants of poly(<i>N</i> -phthalimidomethyl methacrylate). <i>Materials Express</i> , 2015, 5, 24-32.	0.5	1
103	Comparison of theoretical and experimental electronic and optoelectronic properties of HPS compound. <i>Materials Research Express</i> , 2019, 6, 126210.	1.6	1
104	Synthesis and optical properties of some isoindoline-1,3-dione compounds: Optical band gap, refractive index and absorbance band edge. <i>Organic Communications</i> , 2018, 11, 173-180.	0.8	1
105	Fundamental properties of PTCDI-C8 semiconductor for optoelectronic and photonic applications. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	0
106	Photophysical and optical properties of 5-Bromo-2-nitropyridine organic molecule: Experiment and theory. <i>Optical Materials</i> , 2018, 85, 373-381.	3.6	0
107	Experimental, Semi-theoretical, and Theoretical Electronic and Non-linear Optical Characteristics of ECBP. <i>Journal of Electronic Materials</i> , 2020, 49, 3928-3937.	2.2	0
108	Refractive Indices of Poly[(2,5-didecyloxy-1,4-phenylene)-alt-(2,5-thienylene)] Polymer. <i>Academic Perspective Procedia</i> , 2019, 2, 563-566.	0.0	0

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109	The Importance of Polymorphism Dependent Aggregation Induced Enhanced Emission of the Acrylonitrile Derivative: Helical J Type and Antiparallel H Type Stacking Modes. <i>ChemistrySelect</i> , 2021, 6, 11392-11406.	1.5	0
110	Synthesis of the New 1-(7-Methoxy-1-benzofuran-2-yl)-3-(4-methylphenyl)prop-2-en-1-one and Controlling of Spectroscopic, Optical and Conductivity Properties by Concentration.. <i>Acta Chimica Slovenica</i> , 2022, 69, 73-80.	0.6	0
111	An experimental and theoretical investigation of Co-containing hydroxyapatites prepared at different temperatures. <i>Journal of the Australian Ceramic Society</i> , 0, , .	1.9	0
112	Ab Initio Study on Dopant Relaxation Mechanism in Ti and Ce Cationically Substituted in Wurtzite Gallium Nitride. <i>Materials</i> , 2022, 15, 3599.	2.9	0