Simion Astilean

List of Publications by Year
in descending order

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121 papers	3,780 citations	126907 33 h-index	149698 56 g-index
122 all docs	122 docs citations	122 times ranked	6066 citing authors

#	Article	IF	Citations
1	Development and evaluation of a gold nanourchin (GNU)-based sandwich architecture for SERS immunosensing in liquid. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 273, 121069.	3.9	7
2	Probing polyvinylpyrrolidone-passivated graphene oxide nanoflakes as contrast agents inside tissue-like phantoms via multimodal confocal microscopy. Talanta, 2022, 247, 123581.	5.5	2
3	Linezolid nanoAntiobiotics and SERS-nanoTags based on polymeric cyclodextrin bimetallic core-shell nanoarchitectures. Carbohydrate Polymers, 2022, 293, 119736.	10.2	9
4	Folic acid functionalized gold nanoclusters for enabling targeted fluorescence imaging of human ovarian cancer cells. Talanta, 2021, 225, 121960.	5.5	41
5	New insight into the aptamer conformation and aptamer/protein interaction by surface-enhanced Raman scattering and multivariate statistical analysis. Nanoscale, 2021, 13, 12443-12453.	5.6	11
6	Novel (Phenothiazinyl)Vinyl-Pyridinium Dyes and Their Potential Applications as Cellular Staining Agents. International Journal of Molecular Sciences, 2021, 22, 2985.	4.1	4
7	Interventional NIR Fluorescence Imaging of Cancer: Review on Next Generation of Dye-Loaded Protein-Based Nanoparticles for Real-Time Feedback During Cancer Surgery. International Journal of Nanomedicine, 2021, Volume 16, 2147-2171.	6.7	16
8	Fluorescent Polyelectrolyte System to Track Anthocyanins Delivery inside Melanoma Cells. Nanomaterials, 2021, 11, 782.	4.1	6
9	One-photon excited photoluminescence of gold nanospheres and its application in prostate specific antigen detection via fluorescence correlation spectroscopy (FCS). Talanta, 2021, 228, 122242.	5.5	9
10	Folate-targeted Pluronic-chitosan nanocapsules loaded with IR780 for near-infrared fluorescence imaging and photothermal-photodynamic therapy of ovarian cancer. Colloids and Surfaces B: Biointerfaces, 2021, 203, 111755.	5.0	31
11	Fluorescent Phthalocyanine-Encapsulated Bovine Serum Albumin Nanoparticles: Their Deployment as Therapeutic Agents in the NIR Region. Molecules, 2021, 26, 4679.	3.8	9
12	Antibody-functionalized theranostic protein nanoparticles for the synergistic deep red fluorescence imaging and multimodal therapy of ovarian cancer. Biomaterials Science, 2021, 9, 6183-6202.	5.4	4
13	Gold nanoclusters performing as contrast agents for non-invasive imaging of tissue-like phantoms via two-photon excited fluorescence lifetime imaging. Analyst, The, 2021, 146, 7126-7130.	3.5	5
14	Intrinsic Photoluminescence of Solid-State Gold Nanoclusters: Towards Fluorescence Lifetime Imaging of Tissue-Like Phantoms Under Two-Photon Near-Infrared Excitation. Frontiers in Chemistry, 2021, 9, 761711.	3.6	4
15	Reduced graphene oxide today. Journal of Materials Chemistry C, 2020, 8, 1198-1224.	5.5	366
16	Control of microstructure in polymer: Fullerene active films by convective self-assembly. Thin Solid Films, 2020, 697, 137780.	1.8	4
17	A new, fast and facile synthesis method for reduced graphene oxide in N,N-dimethylformamide. Synthetic Metals, 2020, 269, 116576.	3.9	12
18	Versatile Polypeptide-Functionalized Plasmonic Paper as Synergistic Biocompatible and Antimicrobial Nanoplatform. Molecules, 2020, 25, 3182.	3.8	4

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19	Intracellular Fate and Impact on Gene Expression of Doxorubicin/Cyclodextrin-Graphene Nanomaterials at Sub-Toxic Concentration. International Journal of Molecular Sciences, 2020, 21, 4891.	4.1	16
20	Microfluidic platform for integrated plasmonic detection in laminal flow. Nanotechnology, 2020, 31, 335502.	2.6	4
21	Calligraphed Selective Plasmonic Arrays on Paper Platforms for Complementary Dual Optical â€œON/OFF Switchâ€•Sensing. Nanomaterials, 2020, 10, 1025.	4.1	7
22	ICG-loaded gold nano-bipyramids with NIR activatable dual PTT-PDT therapeutic potential in melanoma cells. Colloids and Surfaces B: Biointerfaces, 2020, 194, 111213.	5.0	52
23	Advanced nanostructures for microbial contaminants detection by means of spectroscopic methods. , 2020, , 347-384.		3
24	Design of fluorophore-loaded human serum albumin nanoparticles for specific targeting of NIH:OVCAR3 ovarian cancer cells. Nanotechnology, 2020, 31, 315102.	2.6	8
25	Surface passivation of carbon nanoparticles with 1,2-phenylenediamine towards photoluminescent carbon dots. Revue Roumaine De Chimie, 2020, 65, 559-566.	0.2	1
26	Marine Bacterial Exopolymers-Mediated Green Synthesis of Noble Metal Nanoparticles with Antimicrobial Properties. Polymers, 2019, 11, 1157.	4.5	27
27	Controlling the end-to-end assembly of gold nanorods to enhance the plasmonic response in near infrared. Materials Research Express, 2019, 6, 095038.	1.6	11
28	Assessment of the photothermal conversion efficiencies of tunable gold bipyramids under irradiation by two laser lines in a NIR biological window. Nanotechnology, 2019, 30, 405701.	2.6	17
29	CD19-targeted, Raman tagged gold nanourchins as theranostic agents against acute lymphoblastic leukemia. Colloids and Surfaces B: Biointerfaces, 2019, 184, 110478.	5.0	20
30	Multimodal Biosensing on Paper-Based Platform Fabricated by Plasmonic Calligraphy Using Gold Nanobypiramids Ink. Frontiers in Chemistry, 2019, 7, 55.	3.6	12
31	Efficient combined near-infrared-triggered therapy: Phototherapy over chemotherapy in chitosan-reduced graphene oxide-IR820 dye-doxorubicin nanoplatforms. Journal of Colloid and Interface Science, 2019, 552, 218-229.	9.4	35
32	Resveratrol-delivery vehicle with anti-VEGF activity carried to human retinal pigmented epithelial cells exposed to high-glucose induced conditions. Colloids and Surfaces B: Biointerfaces, 2019, 181, 66-75.	5.0	13
33	Fabrication of goldâ€“silver coreâ€“shell nanoparticles for performing as ultrabright SERS-nanotags inside human ovarian cancer cells. Nanotechnology, 2019, 30, 315701.	2.6	25
34	Casting Light on Intracellular Tracking of a New Functional Graphene-Based MicroRNA Delivery System by FLIM and Raman Imaging. ACS Applied Materials & Interfaces, 2019, 11, 46101-46111.	8.0	21
35	Enhancing Photoluminescence Quenching in Donorâ€“Acceptor PCE11:PPCBMB Films through the Optimization of Film Microstructure. Nanomaterials, 2019, 9, 1757.	4.1	10
36	Adsorption of trans â€•and cis â€Resveratrol on Graphene. Physica Status Solidi (B): Basic Research, 2019, 256, 1800335.	1.5	0

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37	Intracellular Dynamic Disentangling of Doxorubicin Release from Luminescent Nanogold Carriers by Fluorescence Lifetime Imaging Microscopy (FLIM) under Two-Photon Excitation. ACS Applied Materials & Interfaces, 2019, 11, 7812-7822.	8.0	30
38	IR780-dye loaded gold nanoparticles as new near infrared activatable nanotheranostic agents for simultaneous photodynamic and photothermal therapy and intracellular tracking by surface enhanced resonant Raman scattering imaging. Journal of Colloid and Interface Science, 2018, 517, 239-250.	9.4	61
39	Probing cellular uptake and tracking of differently shaped gelatin-coated gold nanoparticles inside of ovarian cancer cells by two-photon excited photoluminescence analyzed by fluorescence lifetime imaging (FLIM). Colloids and Surfaces B: Biointerfaces, 2018, 166, 135-143.	5.0	15
40	Designing Efficient Low-Cost Paper-Based Sensing Plasmonic Nanoplatforms. Sensors, 2018, 18, 3035.	3.8	12
41	Polymer-coated plasmonic nanoparticles for environmental remediation: Synthesis, functionalization, and properties. , 2018, , 361-387.		5
42	Gold NanoBipyramids Performing as Highly Sensitive Dual-Modal Optical Immunosensors. Analytical Chemistry, 2018, 90, 8567-8575.	6.5	43
43	Functional Micrococcus lysodeikticus layers deposited by laser technique for the optical sensing of lysozyme. Colloids and Surfaces B: Biointerfaces, 2018, 162, 98-107.	5.0	10
44	Convective self-assembly of Ï€-conjugated oligomers and polymers. Journal of Materials Chemistry C, 2017, 5, 2513-2518.	5.5	18
45	Revealing the structure and functionality of graphene oxide and reduced graphene oxide/pyrene carboxylic acid interfaces by correlative spectral and imaging analysis. Physical Chemistry Chemical Physics, 2017, 19, 16038-16046.	2.8	22
46	Antibody Conjugated, Raman Tagged Hollow Goldâ€“Silver Nanospheres for Specific Targeting and Multimodal Dark-Field/SERS/Two Photon-FLIM Imaging of CD19(+) B Lymphoblasts. ACS Applied Materials & Interfaces, 2017, 9, 21155-21168.	8.0	41
47	Flexible and Tunable 3D Gold Nanocups Platform as Plasmonic Biosensor for Specific Dual LSPR-SERS Immuno-Detection. Scientific Reports, 2017, 7, 14240.	3.3	43
48	Ruxolitinib-conjugated gold nanoparticles for topical administration: An alternative for treating alopecia?. Medical Hypotheses, 2017, 109, 42-45.	1.5	13
49	Carboplatin-Loaded, Raman-Encoded, Chitosan-Coated Silver Nanotriangles as Multimodal Traceable Nanotherapeutic Delivery Systems and pH Reporters inside Human Ovarian Cancer Cells. ACS Applied Materials & Interfaces, 2017, 9, 32565-32576.	8.0	24
50	Flexible transparent sensors from reduced graphene oxide micro-stripes fabricated by convective self-assembly. Carbon, 2017, 113, 361-370.	10.3	20
51	Enhanced one- and two-photon excited fluorescence of cationic (phenothiazinyl)vinyl-pyridinium chromophore attached to polyelectrolyte-coated gold nanorods. Dyes and Pigments, 2017, 136, 24-30.	3.7	8
52	Shaping light spectra and field profiles in metal-coated monolayers of etched microspheres. Optical Materials Express, 2017, 7, 2847.	3.0	8
53	In vivo assessment of bone marrow toxicity by gold nanoparticle-based bioconjugates in Crl:CD1(ICR) mice. International Journal of Nanomedicine, 2016, Volume 11, 4261-4273.	6.7	12
54	Novel Strategies for the Improvement of Stem Cellsâ€™ Transplantation in Degenerative Retinal Diseases. Stem Cells International, 2016, 2016, 1-9.	2.5	8

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55	Gold nanoparticles enhance the effect of tyrosine kinase inhibitors in acute myeloid leukemia therapy. International Journal of Nanomedicine, 2016, 11, 641.	6.7	34
56	Gelatinâ€coated Gold Nanoparticles as Carriers of <scp>FLT</scp>3 Inhibitors for Acute Myeloid Leukemia Treatment. Chemical Biology and Drug Design, 2016, 87, 927-935.	3.2	26
57	Spherical and Flower-Shaped Gold Nanoparticles Characterization by Scattering Correlation Spectroscopy. Journal of Physical Chemistry C, 2016, 120, 11700-11708.	3.1	13
58	Two-photon fabrication of three-dimensional silver microstructures in microfluidic channels for volumetric surface-enhanced Raman scattering detection. Optical Materials Express, 2016, 6, 1587.	3.0	18
59	Nanomedicine approaches in acute lymphoblastic leukemia. Journal of Controlled Release, 2016, 238, 123-138.	9.9	44
60	Doxorubicin-Incorporated Nanotherapeutic Delivery System Based on Gelatin-Coated Gold Nanoparticles: Formulation, Drug Release, and Multimodal Imaging of Cellular Internalization. ACS Applied Materials & Interfaces, 2016, 8, 22900-22913.	8.0	87
61	A simple and efficient design to improve the detection of biotin-streptavidin interaction with plasmonic nanobiosensors. Biosensors and Bioelectronics, 2016, 86, 728-735.	10.1	36
62	Altering the emission properties of conjugated polymers. Polymer International, 2016, 65, 157-163.	3.1	24
63	Surface passivation of carbon nanoparticles with p-phenylenediamine towards photoluminescent carbon dots. RSC Advances, 2016, 6, 56944-56951.	3.6	30
64	Metanephrine neuroendocrine tumor marker detection by SERS using Au nanoparticle/Au film sandwich architecture. Biomedical Microdevices, 2016, 18, 12.	2.8	11
65	Efficient etching-free transfer of high quality, large-area CVD grown graphene onto polyvinyl alcohol films. Applied Surface Science, 2016, 363, 613-618.	6.1	29
66	Polarized SERS on linear arrays of silver half-shells: SERS re-radiation modulated by local density of optical states. Journal of Optics (United Kingdom), 2015, 17, 114007.	2.2	8
67	Chemiresistive/SERS dual sensor based on densely packed gold nanoparticles. Beilstein Journal of Nanotechnology, 2015, 6, 2498-2503.	2.8	7
68	Fabrication of highly active and cost effective SERS plasmonic substrates by electrophoretic deposition of gold nanoparticles on a DVD template. Applied Surface Science, 2015, 349, 190-195.	6.1	22
69	Design of FLT3 Inhibitor - Gold Nanoparticle Conjugates as Potential Therapeutic Agents for the Treatment of Acute Myeloid Leukemia. Nanoscale Research Letters, 2015, 10, 466.	5.7	29
70	Surface Modeling of Nanopatterned Polymer Films Obtained by Colloidal Templated Electropolymerization. Journal of Nanoscience and Nanotechnology, 2015, 15, 3359-3364.	0.9	3
71	Fabrication of stable network-like gold nanostructures in solution and their assessment as efficient NIR-SERS platforms for organic pollutants detection. Materials Research Bulletin, 2015, 64, 267-273.	5.2	3
72	Comparative toxicity evaluation of flower-shaped and spherical gold nanoparticles on human endothelial cells. Nanotechnology, 2015, 26, 055101.	2.6	54

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73	Biosynthesized silver nanoparticles performing as biogenic SERS-nanotags for investigation of C26 colon carcinoma cells. Colloids and Surfaces B: Biointerfaces, 2015, 133, 296-303.	5.0	47
74	Designing Theranostic Agents Based on Pluronic Stabilized Gold Nanoaggregates Loaded with Methylene Blue for Multimodal Cell Imaging and Enhanced Photodynamic Therapy. ACS Applied Materials & Interfaces, 2015, 7, 16191-16201.	8.0	39
75	Comparative evaluation by scanning confocal Raman spectroscopy and transmission electron microscopy of therapeutic effects of noble metal nanoparticles in experimental acute inflammation. RSC Advances, 2015, 5, 67435-67448.	3.6	22
76	One-pot, green synthesis of gold nanoparticles by gelatin and investigation of their biological effects on Osteoblast cells. Colloids and Surfaces B: Biointerfaces, 2015, 132, 122-131.	5.0	55
77	Designing chitosanâ€“silver nanoparticlesâ€“graphene oxide nanohybrids with enhanced antibacterial activity against Staphylococcus aureus. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 487, 113-120.	4.7	62
78	Metallo complexes of meso-phenothiazinylporphyrins: Synthesis, linear and nonlinear optical properties. Dyes and Pigments, 2015, 123, 386-395.	3.7	15
79	Covalent conjugation of carbon dots with Rhodamine B and assessment of their photophysical properties. RSC Advances, 2015, 5, 77662-77669.	3.6	34
80	Surface-enhanced spectroscopy on plasmonic oligomers assembled by AFM nanoxerography. Nanoscale, 2015, 7, 2009-2022.	5.6	17
81	Emission properties of MEH-PPV in thin films simultaneously illuminated and annealed at different temperatures. Synthetic Metals, 2015, 199, 33-36.	3.9	23
82	Rhodamine B-Coated Gold Nanoparticles as Effective â€œTurn-onâ€•Fluorescent Sensors for Detection of Zinc II Ions in Water. Spectroscopy Letters, 2014, 47, 153-159.	1.0	21
83	Pluronic-coated silver nanoprisms: Synthesis, characterization and their antibacterial activity. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 441, 77-83.	4.7	24
84	Steady-state and time-resolved fluorescence studies on the conjugation of Rose Bengal to gold nanorods. Journal of Molecular Structure, 2014, 1073, 97-101.	3.6	4
85	Folic Acid-Conjugated, SERS-Labeled Silver Nanotriangles for Multimodal Detection and Targeted Photothermal Treatment on Human Ovarian Cancer Cells. Molecular Pharmaceutics, 2014, 11, 391-399.	4.6	117
86	Controlling the Luminescence of Carboxyl-Functionalized CdSe/ZnS Coreâ€“Shell Quantum Dots in Solution by Binding with Gold Nanorods. Journal of Physical Chemistry C, 2014, 118, 25190-25199.	3.1	28
87	Enhancing the Photoluminescence Emission of Conjugated MEH-PPV by Light Processing. ACS Applied Materials & Interfaces, 2014, 6, 4974-4979.	8.0	35
88	Finite-Difference Time-Domain (FDTD) design of gold nanoparticle chains with specific surface plasmon resonance. Journal of Molecular Structure, 2014, 1072, 137-143.	3.6	54
89	Negative index optical chiral metamaterial based on asymmetric hexagonal arrays of metallic triangular nanoprisms. Optics Communications, 2014, 315, 122-129.	2.1	19
90	Multiscale electromagnetic SERS enhancement on selfâ€assembled micropatterned gold nanoparticle films. Journal of Raman Spectroscopy, 2014, 45, 627-635.	2.5	14

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91	Periodically nanostructured substrates for surface enhanced Raman spectroscopy. Journal of Molecular Structure, 2014, 1073, 102-111.	3.6	23
92	Goldâ€“Pluronic coreâ€“shell nanoparticles: synthesis, characterization and biological evaluation. Journal of Nanoparticle Research, 2013, 15, 1.	1.9	11
93	Localized Surface Plasmon Resonance (LSPR) Biosensor for the Protein Detection. Plasmonics, 2013, 8, 699-704.	3.4	42
94	Spectroscopic investigation of PVA-TIO2 membranes gamma irradiated. Journal of Molecular Structure, 2013, 1044, 328-330.	3.6	6
95	LEDâ€activated methylene blueâ€loaded Pluronicâ€nanogold hybrids for in vitro photodynamic therapy. Journal of Biophotonics, 2013, 6, 950-959.	2.3	17
96	Riboflavin enhanced fluorescence of highly reduced graphene oxide. Chemical Physics Letters, 2013, 586, 127-131.	2.6	21
97	Study of gold nanorodsâ€“protein interaction by localized surface plasmon resonance spectroscopy. Gold Bulletin, 2013, 46, 275-281.	2.4	16
98	Gelatinâ€“nanogold bioconjugates as effective plasmonic platforms for SERS detection and tagging. Colloids and Surfaces B: Biointerfaces, 2013, 103, 475-481.	5.0	32
99	Chitosan-coated triangular silver nanoparticles as a novel class of biocompatible, highly sensitive plasmonic platforms for intracellular SERS sensing and imaging. Nanoscale, 2013, 5, 6013.	5.6	65
100	S-acetyl-calix[8]arene adsorption on polycrystalline Au surface: A kinetic study. Electrochimica Acta, 2013, 102, 225-232.	5.2	0
101	Enhanced thermal stability of gelatin coated gold nanorods in water solution. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 433, 9-13.	4.7	26
102	A new green, ascorbic acid-assisted method for versatile synthesis of Auâ€“graphene hybrids as efficient surface-enhanced Raman scattering platforms. Journal of Materials Chemistry C, 2013, 1, 4094.	5.5	111
103	Dual-band optical negative index metamaterial based on hexagonal arrays of triangular nanoholes in metalâ€“dielectric films. Optics Communications, 2013, 296, 141-148.	2.1	6
104	Easy and cheap fabrication of ordered pyramidal-shaped plasmonic substrates for detection and quantitative analysis using surface-enhanced Raman spectroscopy. Analyst, The, 2013, 138, 4975.	3.5	18
105	Chemical decomposition of CdTe and CdBr<inf>2</inf> dopants in KBr. , 2013, , .		0
106	MONITORING THE EFFECTS OF ULTRAVIOLET AND VISIBLE LIGHT ON Rb AND VITAMIN A IN MILK. Environmental Engineering and Management Journal, 2013, 12, 2443-2448.	0.6	1
107	Study of ZnO Nanoparticles Growth Through Successive Chemical Solution Deposition onto Solid Substrates Patterned with Metallic Nanoparticles. Particulate Science and Technology, 2012, 30, 416-423.	2.1	0
108	Gold Nanorods Performing as Dual-Modal Nanoprobes via Metal-Enhanced Fluorescence (MEF) and Surface-Enhanced Raman Scattering (SERS). Journal of Physical Chemistry C, 2012, 116, 12240-12249.	3.1	121

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109	Surface-Enhanced Raman Scattering (SERS) Analysis of Urea Trace in Urine, Fingerprint, and Tear Samples. Spectroscopy Letters, 2012, 45, 550-555.	1.0	28
110	Chitosan-coated anisotropic silver nanoparticles as a SERS substrate for single-molecule detection. Nanotechnology, 2012, 23, 055501.	2.6	97
111	Understanding plasmon resonances of metal-coated colloidal crystal monolayers. Applied Physics B: Lasers and Optics, 2012, 106, 849-856.	2.2	44
112	Solution-phase, dual LSPR-SERS plasmonic sensors of high sensitivity and stability based on chitosan-coated anisotropic silver nanoparticles. Journal of Materials Chemistry, 2011, 21, 3625.	6.7	132
113	Synergistic antibacterial activity of chitosanâ€“silver nanocomposites onStaphylococcus aureus. Nanotechnology, 2011, 22, 135101.	2.6	180
114	Laser microstructuration of three-dimensional enzyme reactors in microfluidic channels. Microfluidics and Nanofluidics, 2011, 10, 685-690.	2.2	40
115	Localized surface plasmon resonance (LSPR) and surface-enhanced Raman scattering (SERS) studies of 4-aminothiophenol adsorption on gold nanorods. Journal of Molecular Structure, 2011, 993, 420-424.	3.6	87
116	Mapping the SERS Efficiency and Hot-Spots Localization on Gold Film over Nanospheres Substrates. Journal of Physical Chemistry C, 2010, 114, 11717-11722.	3.1	151
117	Silver half-shell arrays with controlled plasmonic response for fluorescence enhancement optimization. Applied Physics Letters, 2009, 95, .	3.3	53
118	PRELIMINARY INVESTIGATION BY RAMAN SPECTROSCOPY OF SOME POLYMERIC MATRIX WITH PHARMACEUTICAL APPLICATIONS. Modern Physics Letters B, 2007, 21, 987-995.	1.9	2
119	Probing the enhancement mechanisms of SERS with p-aminothiophenol molecules adsorbed on self-assembled gold colloidal nanoparticles. Chemical Physics Letters, 2006, 422, 127-132.	2.6	103
120	NMR spectroscopy of inclusion complex of sodium diclofenac with Î²-cyclodextrin in aqueous solution. Biospectroscopy, 1997, 3, 233-239.	0.6	20
121	Anti-CD19 Gold Nanostars as New Therapeutic Vectors for the Treatment of Acute Lymphoblastic Leukemia. , 0, , .		0