

Enrica VernÃ©

List of Publications by Year in descending order

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123
papers

4,290
citations

94269

37
h-index

133063

59
g-index

131
all docs

131
docs citations

131
times ranked

4041
citing authors

#	ARTICLE	IF	CITATIONS
1	A unified in vitro evaluation for apatite-forming ability of bioactive glasses and their variants. <i>Journal of Materials Science: Materials in Medicine</i> , 2015, 26, 115.	1.7	275
2	Bioactive Glasses: From Parent 45S5 Composition to Scaffold-Assisted Tissue-Healing Therapies. <i>Journal of Functional Biomaterials</i> , 2018, 9, 24.	1.8	202
3	Antibiotic-Loaded Cement in Orthopedic Surgery: A Review. <i>ISRN Orthopedics</i> , 2011, 2011, 1-8.	0.7	149
4	Bioactive sol-gel glasses: Processing, properties, and applications. <i>International Journal of Applied Ceramic Technology</i> , 2018, 15, 841-860.	1.1	124
5	High strength bioactive glass-ceramic scaffolds for bone regeneration. <i>Journal of Materials Science: Materials in Medicine</i> , 2009, 20, 643-653.	1.7	107
6	In vitro study of manganese-doped bioactive glasses for bone regeneration. <i>Materials Science and Engineering C</i> , 2014, 38, 107-118.	3.8	105
7	Processing methods for making porous bioactive glass-based scaffolds” A state-of-the-art review. <i>International Journal of Applied Ceramic Technology</i> , 2019, 16, 1762-1796.	1.1	93
8	Hydroxyapatite for Biomedical Applications: A Short Overview. <i>Ceramics</i> , 2021, 4, 542-563.	1.0	88
9	Biomaterials for orbital implants and ocular prostheses: Overview and future prospects. <i>Acta Biomaterialia</i> , 2014, 10, 1064-1087.	4.1	87
10	Optimization of composition, structure and mechanical strength of bioactive 3-D glass-ceramic scaffolds for bone substitution. <i>Journal of Biomaterials Applications</i> , 2013, 27, 872-890.	1.2	86
11	Glass-ceramics for cancer treatment: So close, or yet so far?. <i>Acta Biomaterialia</i> , 2019, 83, 55-70.	4.1	85
12	Biocompatible glass-ceramic materials for bone substitution. <i>Journal of Materials Science: Materials in Medicine</i> , 2008, 19, 471-478.	1.7	81
13	Micro-CT studies on 3-D bioactive glass-ceramic scaffolds for bone regeneration. <i>Acta Biomaterialia</i> , 2009, 5, 1328-1337.	4.1	79
14	Glass-based coatings on biomedical implants: a state-of-the-art review. <i>Biomedical Glasses</i> , 2017, 3, 1-17.	2.4	76
15	Alkaline phosphatase grafting on bioactive glasses and glass ceramics. <i>Acta Biomaterialia</i> , 2010, 6, 229-240.	4.1	74
16	3-D high-strength glass-ceramic scaffolds containing fluoroapatite for load-bearing bone portions replacement. <i>Materials Science and Engineering C</i> , 2009, 29, 2055-2062.	3.8	73
17	PMMA-Based Bone Cements and the Problem of Joint Arthroplasty Infections: Status and New Perspectives. <i>Materials</i> , 2019, 12, 4002.	1.3	62
18	Electrophoretic Deposition of Chitosan/45S5 Bioactive Glass Composite Coatings Doped with Zn and Sr. <i>Frontiers in Bioengineering and Biotechnology</i> , 2015, 3, 159.	2.0	59

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19	Bioactive glass-derived trabecular coating: a smart solution for enhancing osteointegration of prosthetic elements. <i>Journal of Materials Science: Materials in Medicine</i> , 2012, 23, 2369-2380.	1.7	57
20	Comparison between Bioactive Sol-Gel and Melt-Derived Glasses/Glass-Ceramics Based on the Multicomponent $\text{SiO}_2\text{-P}_2\text{O}_5\text{-CaO-MgO-Na}_2\text{O-K}_2\text{O}$ System. <i>Materials</i> , 2020, 13, 540.	1.3	57
21	Pores occlusion in MCM-41 spheres immersed in SBF and the effect on ibuprofen delivery kinetics: A quantitative model. <i>Chemical Engineering Journal</i> , 2010, 156, 184-192.	6.6	55
22	Surface properties and cell response of low metal ion release Ti-6Al-7Nb alloy after multi-step chemical and thermal treatments. <i>Biomaterials</i> , 2005, 26, 1219-1229.	5.7	54
23	Digital light processing stereolithography of hydroxyapatite scaffolds with bone-like architecture, permeability, and mechanical properties. <i>Journal of the American Ceramic Society</i> , 2022, 105, 1648-1657.	1.9	54
24	Bioactive glass coupling with natural polyphenols: Surface modification, bioactivity and anti-oxidant ability. <i>Applied Surface Science</i> , 2016, 367, 237-248.	3.1	53
25	Silver nanocluster-silica composite coatings with antibacterial properties. <i>Materials Chemistry and Physics</i> , 2010, 120, 123-126.	2.0	50
26	Foam-like scaffolds for bone tissue engineering based on a novel couple of silicate-phosphate specular glasses: synthesis and properties. <i>Journal of Materials Science: Materials in Medicine</i> , 2009, 20, 2197-2205.	1.7	48
27	Fe-doped bioactive glass-derived scaffolds produced by sol-gel foaming. <i>Materials Letters</i> , 2019, 235, 207-211.	1.3	47
28	Glass-ceramic scaffolds containing silica mesophases for bone grafting and drug delivery. <i>Journal of Materials Science: Materials in Medicine</i> , 2009, 20, 809-820.	1.7	46
29	Antibacterial coating on polymer for space application. <i>Materials Chemistry and Physics</i> , 2012, 135, 714-722.	2.0	46
30	Fe-Doped Sol-Gel Glasses and Glass-Ceramics for Magnetic Hyperthermia. <i>Materials</i> , 2018, 11, 173.	1.3	45
31	Functionalization and Surface Modifications of Bioactive Glasses (BGs): Tailoring of the Biological Response Working on the Outermost Surface Layer. <i>Materials</i> , 2019, 12, 3696.	1.3	45
32	Mesoporous Bioactive Glass as a Multifunctional System for Bone Regeneration and Controlled Drug Release. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2012, 10, 12-21.	0.7	42
33	Composite bone cements loaded with a bioactive and ferrimagnetic glass-ceramic: Leaching, bioactivity and cytocompatibility. <i>Materials Science and Engineering C</i> , 2015, 53, 95-103.	3.8	42
34	Composite Films of Gelatin and Hydroxyapatite/Bioactive Glass for Tissue-Engineering Applications. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2010, 21, 1207-1226.	1.9	41
35	Feasibility, tailoring and properties of polyurethane/bioactive glass composite scaffolds for tissue engineering. <i>Journal of Materials Science: Materials in Medicine</i> , 2009, 20, 2189-2195.	1.7	40
36	A Guided Walk through the World of Mesoporous Bioactive Glasses (MBCs): Fundamentals, Processing, and Applications. <i>Nanomaterials</i> , 2020, 10, 2571.	1.9	40

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37	Antibiotic-free composite bone cements with antibacterial and bioactive properties. A preliminary study. <i>Materials Science and Engineering C</i> , 2014, 43, 65-75.	3.8	39
38	Robocasting of SiO ₂ -Based Bioactive Glass Scaffolds with Porosity Gradient for Bone Regeneration and Potential Load-Bearing Applications. <i>Materials</i> , 2019, 12, 2691.	1.3	39
39	Copper-Doped Bioactive Glass as Filler for PMMA-Based Bone Cements: Morphological, Mechanical, Reactivity, and Preliminary Antibacterial Characterization. <i>Materials</i> , 2018, 11, 961.	1.3	38
40	Competitive Surface Colonization of Antibacterial and Bioactive Materials Doped with Strontium and/or Silver Ions. <i>Nanomaterials</i> , 2020, 10, 120.	1.9	38
41	Resorbable Glass-Ceramic Phosphate-based Scaffolds for Bone Tissue Engineering: Synthesis, Properties, and <i>In vitro</i> Effects on Human Marrow Stromal Cells. <i>Journal of Biomaterials Applications</i> , 2011, 26, 465-489.	1.2	34
42	Bread-Derived Bioactive Porous Scaffolds: An Innovative and Sustainable Approach to Bone Tissue Engineering. <i>Molecules</i> , 2019, 24, 2954.	1.7	34
43	Feasibility and Tailoring of Bioactive Glass-ceramic Scaffolds with Gradient of Porosity for Bone Grafting. <i>Journal of Biomaterials Applications</i> , 2010, 24, 693-712.	1.2	33
44	Cell Penetrating Peptide Adsorption on Magnetite and Silica Surfaces: A Computational Investigation. <i>Journal of Physical Chemistry B</i> , 2015, 119, 8239-8246.	1.2	33
45	Tumor targeting by lentiviral vectors combined with magnetic nanoparticles in mice. <i>Acta Biomaterialia</i> , 2017, 59, 303-316.	4.1	33
46	Robocasting of Bioactive SiO ₂ -P ₂ O ₅ -CaO-MgO-Na ₂ O-K ₂ O Glass Scaffolds. <i>Journal of Healthcare Engineering</i> , 2019, 2019, 1-12.	1.1	32
47	Chemical, Mechanical, and Antibacterial Properties of Silver Nanocluster-Silica Composite Coatings Obtained by Sputtering. <i>Advanced Engineering Materials</i> , 2010, 12, B276.	1.6	31
48	Antibacterial and bioactive composite bone cements containing surface silver-doped glass particles. <i>Biomedical Materials (Bristol)</i> , 2015, 10, 055014.	1.7	31
49	<i>In vitro</i> biocompatibility of a ferrimagnetic glass-ceramic for hyperthermia application. <i>Materials Science and Engineering C</i> , 2017, 73, 778-787.	3.8	31
50	Production and Characterization of Glass-Ceramic Materials for Potential Use in Dental Applications: Thermal and Mechanical Properties, Microstructure, and <i>In Vitro</i> Bioactivity. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 1330.	1.3	31
51	Composite bone cements loaded with a bioactive and ferrimagnetic glass-ceramic. Part I: Morphological, mechanical and calorimetric characterization. <i>Journal of Biomaterials Applications</i> , 2014, 29, 254-267.	1.2	30
52	Bioactive and Antibacterial Glass Powders Doped with Copper by Ion-Exchange in Aqueous Solutions. <i>Materials</i> , 2016, 9, 405.	1.3	30
53	Antibacterial Bioglass-Derived Scaffolds: Innovative Synthesis Approach and Characterization. <i>International Journal of Applied Glass Science</i> , 2016, 7, 238-247.	1.0	30
54	Antibiotic-loaded acrylic bone cements: An <i>in vitro</i> study on the release mechanism and its efficacy. <i>Materials Science and Engineering C</i> , 2013, 33, 3025-3032.	3.8	29

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55	Surface functionalization of bioactive glasses with natural molecules of biological significance, Part I: Gallic acid as model molecule. <i>Applied Surface Science</i> , 2013, 287, 329-340.	3.1	29
56	Novel resorbable glass-ceramic scaffolds for hard tissue engineering: From the parent phosphate glass to its bone-like macroporous derivatives. <i>Journal of Biomaterials Applications</i> , 2014, 28, 1287-1303.	1.2	29
57	Novel antibacterial ocular prostheses: Proof of concept and physico-chemical characterization. <i>Materials Science and Engineering C</i> , 2016, 60, 467-474.	3.8	29
58	Foam Replica Method in the Manufacturing of Bioactive Glass Scaffolds: Out-of-Date Technology or Still Underexploited Potential?. <i>Materials</i> , 2021, 14, 2795.	1.3	29
59	Green Tea Polyphenols Coupled with a Bioactive Titanium Alloy Surface: In Vitro Characterization of Osteoinductive Behavior through a KUSA A1 Cell Study. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2255.	1.8	28
60	Dolomite-Foamed Bioactive Silicate Scaffolds for Bone Tissue Repair. <i>Materials</i> , 2020, 13, 628.	1.3	27
61	Gallic acid grafting to a ferrimagnetic bioactive glass-ceramic. <i>Journal of Non-Crystalline Solids</i> , 2016, 432, 167-175.	1.5	26
62	Tumor Targeting by Monoclonal Antibody Functionalized Magnetic Nanoparticles. <i>Nanomaterials</i> , 2019, 9, 1575.	1.9	26
63	Surface functionalization of bioactive glasses with natural molecules of biological significance, part II: Grafting of polyphenols extracted from grape skin. <i>Applied Surface Science</i> , 2013, 287, 341-348.	3.1	25
64	<i>In situ</i> Raman study to monitor bioactive glasses reactivity. <i>Journal of Raman Spectroscopy</i> , 2008, 39, 260-264.	1.2	24
65	Bioactive Glasses with Low Ca/P Ratio and Enhanced Bioactivity. <i>Materials</i> , 2016, 9, 226.	1.3	24
66	Biocompatibility versus peritoneal mesothelial cells of polypropylene prostheses for hernia repair, coated with a thin silica/silver layer. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2017, 105, 1586-1593.	1.6	23
67	Reductant-free synthesis of magnetoplasmonic iron oxide-gold nanoparticles. <i>Ceramics International</i> , 2017, 43, 15258-15265.	2.3	21
68	Comprehensive assessment of bioactive glass and glass-ceramic scaffold permeability: experimental measurements by pressure wave drop, modelling and computed tomography-based analysis. <i>Acta Biomaterialia</i> , 2021, 119, 405-418.	4.1	21
69	Shock Waves Induce Activity of Human Osteoblast-Like Cells in Bioactive Scaffolds. <i>Journal of Trauma</i> , 2010, 68, 1439-1444.	2.3	20
70	On the mechanism of apatite-induced precipitation on 45S5 glass pellets coated with a natural-derived polymer. <i>Applied Surface Science</i> , 2015, 353, 137-149.	3.1	20
71	Composites bone cements with different viscosities loaded with a bioactive and antibacterial glass. <i>Journal of Materials Science</i> , 2017, 52, 5133-5146.	1.7	19
72	Biocompatibility and Antibacterial Effect of Silver Doped 3D-Glass-Ceramic Scaffolds for Bone Grafting. <i>Journal of Biomaterials Applications</i> , 2011, 25, 595-617.	1.2	18

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73	Innovative superparamagnetic iron-oxide nanoparticles coated with silica and conjugated with linoleic acid: Effect on tumor cell growth and viability. <i>Materials Science and Engineering C</i> , 2017, 76, 439-447.	3.8	18
74	Polypropylene prostheses coated with silver nanoclusters/silica coating obtained by sputtering: Biocompatibility and antibacterial properties. <i>Surface and Coatings Technology</i> , 2017, 319, 326-334.	2.2	18
75	Antibiotic loading on bioactive glasses and glass-ceramics: An approach to surface modification. <i>Journal of Biomaterials Applications</i> , 2013, 28, 308-319.	1.2	17
76	Electrospun Filaments Embedding Bioactive Glass Particles with Ion Release and Enhanced Mineralization. <i>Nanomaterials</i> , 2019, 9, 182.	1.9	17
77	Surface Functionalization of Bioactive Glasses with Polyphenols from <i>Padina pavonica</i> Algae and In Situ Reduction of Silver Ions: Physico-Chemical Characterization and Biological Response. <i>Coatings</i> , 2019, 9, 394.	1.2	17
78	Tellurium: A new active element for innovative multifunctional bioactive glasses. <i>Materials Science and Engineering C</i> , 2021, 123, 111957.	3.8	17
79	Surface functionalization of 3D glass-ceramic porous scaffolds for enhanced mineralization in vitro. <i>Applied Surface Science</i> , 2013, 271, 412-420.	3.1	16
80	Crystallization behavior of SiO ₂ -P ₂ O ₅ -CaO-MgO-Na ₂ O-K ₂ O bioactive glass powder. <i>Biomedical Glasses</i> , 2019, 5, 46-52.	2.4	16
81	Mechanical characterization of pore-graded bioactive glass scaffolds produced by robocasting. <i>Biomedical Glasses</i> , 2019, 5, 140-147.	2.4	16
82	Bioactivity of degradable polymer sutures coated with bioactive glass. <i>Journal of Materials Science: Materials in Medicine</i> , 2004, 15, 893-899.	1.7	15
83	Monodisperse Mesoporous Silica Spheres Inside a Bioactive Macroporous Glass-Ceramic Scaffold. <i>Advanced Engineering Materials</i> , 2010, 12, B256.	1.6	15
84	Surface Activation of a Ferrimagnetic Glass-Ceramic for Antineoplastic Drugs Grafting. <i>Advanced Engineering Materials</i> , 2010, 12, B309.	1.6	14
85	In Vitro Comparison between Commercially and Manually Mixed Antibiotic-Loaded Bone Cements. <i>Journal of Applied Biomaterials and Biomechanics</i> , 2010, 8, 166-174.	0.4	13
86	Composite bone cements for hyperthermia: modeling and characterization of magnetic, calorimetric and in vitro heating properties. <i>Ceramics International</i> , 2017, 43, 4831-4840.	2.3	13
87	PPARs are mediators of anti-cancer properties of superparamagnetic iron oxide nanoparticles (SPIONs) functionalized with conjugated linoleic acid. <i>Chemico-Biological Interactions</i> , 2018, 292, 9-14.	1.7	13
88	Bioactive glass and glass-ceramic orbital implants. <i>International Journal of Applied Ceramic Technology</i> , 2019, 16, 1850-1863.	1.1	12
89	High-reliability data processing and calculation of microstructural parameters in hydroxyapatite scaffolds produced by vat photopolymerization. <i>Journal of the European Ceramic Society</i> , 2022, 42, 6206-6212.	2.8	12
90	Development and Characterization of PEEK/B ₂ O ₃ -Doped 45S5 Bioactive Glass Composite Coatings Obtained by Electrophoretic Deposition. <i>Key Engineering Materials</i> , 0, 654, 165-169.	0.4	11

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91	Surface functionalization of phosphate-based bioactive glasses with 3-aminopropyltriethoxysilane (APTS). <i>Biomedical Glasses</i> , 2016, 2, .	2.4	11
92	Multifunctional ferrimagnetic glass-ceramic for the treatment of bone tumor and associated complications. <i>Journal of Materials Science</i> , 2017, 52, 9192-9201.	1.7	11
93	Magnetite and silica-coated magnetite nanoparticles are highly biocompatible on endothelial cells <i>in vitro</i> . <i>Biomedical Physics and Engineering Express</i> , 2017, 3, 025015.	0.6	11
94	In situ chemical and physical reduction of copper on bioactive glass surface. <i>Applied Surface Science</i> , 2019, 495, 143559.	3.1	11
95	Antioxidant Activity of Silica-Based Bioactive Glasses. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 2309-2316.	2.6	11
96	Surface functionalization of bioactive glasses and hydroxyapatite with polyphenols from organic red grape pomace. <i>Journal of the American Ceramic Society</i> , 2022, 105, 1697-1710.	1.9	11
97	In Vivo Evaluation of 3D-Printed Silica-Based Bioactive Glass Scaffolds for Bone Regeneration. <i>Journal of Functional Biomaterials</i> , 2022, 13, 74.	1.8	11
98	Bioactive superparamagnetic nanoparticles for multifunctional composite bone cements. <i>Ceramics International</i> , 2019, 45, 14533-14545.	2.3	10
99	Sintering Behavior of a Six-Oxide Silicate Bioactive Glass for Scaffold Manufacturing. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 8279.	1.3	10
100	Biomedical Radioactive Glasses for Brachytherapy. <i>Materials</i> , 2021, 14, 1131.	1.3	10
101	Surface Modification of Bioresorbable Phosphate Glasses for Controlled Protein Adsorption. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 4483-4493.	2.6	10
102	Foam-Replicated Diopside/Fluorapatite/Wollastonite-Based Glass-Ceramic Scaffolds. <i>Ceramics</i> , 2022, 5, 120-130.	1.0	9
103	Synthesis and characterization of magnetic and antibacterial nanoparticles as filler in acrylic cements for bone cancer and comorbidities therapy. <i>Ceramics International</i> , 2021, 47, 17633-17643.	2.3	8
104	In vitro comparison between commercially and manually mixed antibiotic-loaded bone cements. <i>Journal of Applied Biomaterials and Biomechanics</i> , 2010, 8, 166-74.	0.4	8
105	Magnetotransport properties of a percolating network of magnetite crystals embedded in a glass-ceramic matrix. <i>Journal of Applied Physics</i> , 2009, 105, 083911.	1.1	7
106	Gallic acid grafting modulates the oxidative potential of ferrimagnetic bioactive glass-ceramic SC-45. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 148, 592-599.	2.5	7
107	Synthesis and characterization of silica-coated superparamagnetic iron oxide nanoparticles and interaction with pancreatic cancer cells. <i>International Journal of Applied Ceramic Technology</i> , 2018, 15, 947-960.	1.1	7
108	Bioactive sol-gel glass-coated wood-derived biocarbon scaffolds. <i>Materials Letters</i> , 2018, 232, 14-17.	1.3	7

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109	Biological Evaluation of a New Sodium-Potassium Silico-Phosphate Glass for Bone Regeneration: In Vitro and In Vivo Studies. <i>Materials</i> , 2021, 14, 4546.	1.3	7
110	Antibacterial and Bioactive Composite Bone Cements. <i>Current Materials Science</i> , 2020, 12, 144-153.	0.2	7
111	Preparation and investigation of a glass in the system Al ₂ O ₃ -SiO ₂ -CaO for dental applications. <i>Materials Letters</i> , 2006, 60, 3045-3047.	1.3	5
112	Melt-derived copper-doped ferrimagnetic glass-ceramic for tumor treatment. <i>Ceramics International</i> , 2021, 47, 31749-31755.	2.3	3
113	Magneto-plasmonic heterodimers: Evaluation of different synthesis approaches. <i>Journal of the American Ceramic Society</i> , 2022, 105, 1276.	1.9	3
114	Glass-Ceramic Scaffolds and Shock Waves Effect on Cells Migration. <i>Key Engineering Materials</i> , 2008, 361-363, 233-236.	0.4	2
115	Surface Functionalization of a Silica-Based Bioactive Glass with Compounds from <i>Rosa canina</i> Bud Extracts. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 96-104.	2.6	2
116	<i>In situ</i> reduction of Ag on magnetic nanoparticles with gallic acid: effect of the synthesis parameters on morphology. <i>Nanomedicine</i> , 2022, 17, 499-511.	1.7	2
117	Multifunctional Bioactive Glasses and Glass-Ceramics: Beyond "Traditional" Bioactivity. , 2019, , 35-67.		1
118	Chapter 9. Surface Functionalization of Bioactive Glasses: Reactive Groups, Biomolecules and Drugs on Bioactive Surfaces for Smart and Functional Biomaterials. <i>RSC Smart Materials</i> , 0, , 221-235.	0.1	1
119	Glass-Ceramic Matrix/ZrO ₂ Particle Biocomposites. , 2005, , 146-151.		0
120	Materials for Healthcare Applications Symposium, EUROMAT 2011 (Montpellier, France, 12-15 September) <i>Tj ETQq0 0 0 rgBT /Overlo</i>	1.7	0
121	Guest editors' preface. <i>Journal of Materials Science</i> , 2017, 52, 8691-8694.	1.7	0
122	Natural Coatings on Titanium Surfaces to Improve Their Biological Response. , 0, , .		0
123	Surface Functionalization of Bioactive and Ferrimagnetic Glass-Ceramics (SC45) with Gallic Acid and Folic Acid. , 2013, , .		0