Taza Gul

List of Publications by Year
in descending order

132 papers	3,580 citations	182225 30 h-index	232693 48 g-index
132 all docs	132 docs citations	132 times ranked	1328 citing authors

#	Article	IF	Citations
1	Extinction and persistence of a stochastic delayed Covid-19 epidemic model. Computer Methods in Biomechanics and Biomedical Engineering, 2023, 26, 424-437.	0.9	1
2	Irreversibility analysis of the couple stress hybrid nanofluid flow under the effect of electromagnetic field. International Journal of Numerical Methods for Heat and Fluid Flow, 2022, 32, 642-659.	1.6	19
3	Fractional dynamics and stability analysis of COVID-19 pandemic model under the harmonic mean type incidence rate. Computer Methods in Biomechanics and Biomedical Engineering, 2022, 25, 619-640.	0.9	22
4	Effects of chemical reaction, viscosity, thermal conductivity, heat source, radiation/absorption, on MHD mixed convection nano-fluids flow over an unsteady stretching sheet by HAM and numerical method. Advances in Mechanical Engineering, 2022, 14, 168781402210743.	0.8	3
5	Parametric simulation of micropolar fluid with thermal radiation across a porous stretching surface. Scientific Reports, 2022, 12, 2542.	1.6	38
6	Mixed convection and thermally radiative hybrid nanofluid flow over a curved surface. Advances in Mechanical Engineering, 2022, 14, 168781322210828.	0.8	10
7	Comparative analysis of the CNTs nano fluid flow between the two gyrating disks. Advances in Mechanical Engineering, 2022, 14, 168781322210931.	0.8	6
8	Electro-Magnetohydrodynamic Fractional-Order Fluid Flow with New Similarity Transformations. Journal of Nanomaterials, 2022, 2022, 1-9.	1.5	1
9	Melting Heat Transition in a Spinning Flow of Silver-Magnesium Oxide/Engine Oil Hybrid Nanofluid Using Parametric Estimation. Journal of Nanomaterials, 2022, 2022, 1-13.	1.5	11
10	Controlling of the melting through porous medium and magnetic field. Measurement and Control, 2021, 54, 779-789.	0.9	2
11	A new analytical approach for the research of thin€film flow of magneto hydrodynamic fluid in the presence of thermal conductivity and variable viscosity. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2021, 101, e201900292.	0.9	12
12	Unsteady bioconvection Darcy€Forchheimer nanofluid flow through a horizontal channel with impact of magnetic field and thermal radiation. Heat Transfer, 2021, 50, 3240-3264.	1.7	9
13	Bioconvection casson nanofluid flow together with Darcy-Forchheimer due to a rotating disk with thermal radiation and arrhenius activation energy. SN Applied Sciences, 2021, 3, 1.	1.5	29
14	Entropy Generation for MHD Maxwell Nanofluid Flow Past a Porous and Stretching Surface with Dufour and Soret Effects. Brazilian Journal of Physics, 2021, 51, 469-480.	0.7	21
15	Radiative swirl motion of hydromagnetic Casson nanofluid flow over rotary cylinder using Joule dissipation impact. Physica Scripta, 2021, 96, 045206.	1.2	30
16	MHD Darcy-Forchheimer flow of Casson nanofluid due to a rotating disk with thermal radiation and Arrhenius activation energy. Journal of Physics Communications, 2021, 5, 025008.	0.5	16
17	Analytical study of MHD mixed convection flow for Maxwell nanofluid with variable thermal conductivity and Soret and Dufour effects. AIP Advances, 2021, 11, .	0.6	19
18	The impact of magnetohydrodynamic on bioconvection nanofluid flow with viscous dissipation and joule heating effects. Engineering Research Express, 2021, 3, 015030.	0.8	21

#	ARTICLE	IF	CITATIONS
19	The magnetohydrodynamic flow of a nanofluidÂover a curved exponentially stretching surface. Heat Transfer, 2021, 50, 5356-5379.	1.7	8
20	Insight into the dynamics of second grade hybrid radiative nanofluid flow within the boundary layer subject to Lorentz force. Scientific Reports, 2021, 11, 4894.	1.6	21
21	Bio-convectional Nanofluid Flow Due to the Thermophoresis and Gyrotactic Microorganism Between the Gap of a Disk and Cone. Brazilian Journal of Physics, 2021, 51, 687-697.	0.7	22
22	Chemically reactive nanofluid flow past a thin moving needle with viscous dissipation, magnetic effects and hall current. PLoS ONE, 2021, 16, e0249264.	1.1	36
23	Unsteady thermal Maxwell power law nanofluid flow subject to forced thermal Marangoni Convection. Scientific Reports, 2021, 11, 7521.	1.6	16
24	Mixed convection stagnation point flow of the blood based hybrid nanofluid around a rotating sphere. Scientific Reports, 2021, 11, 7460.	1.6	40
25	Darcy-Forchheimer hybrid nanofluid flow over a stretching curved surface with heat and mass transfer. PLoS ONE, 2021, 16, e0249434.	1.1	48
26	Blood based hybrid nanofluid flow together with electromagnetic field and couple stresses. Scientific Reports, 2021, 11, 12865.	1.6	28
27	Axisymmetric hybrid nanofluid flow with heat and mass transfer amongst the two gyrating plates. ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik, 2021, 101, e202000146.	0.9	32
28	Bio-convective micropolar nanofluid flow over thin moving needle subject to Arrhenius activation energy, viscous dissipation and binary chemical reaction. Case Studies in Thermal Engineering, 2021, 25, 100989.	2.8	53
29	MHD hybrid nanofluid flow comprising the medication through a blood artery. Scientific Reports, 2021, 11, 11621.	1.6	70
30	Magneto hydrodynamic and dissipated nanofluid flow over an unsteady turning disk. Advances in Mechanical Engineering, 2021, 13, 168781402110343.	0.8	23
31	Numerical Approximation of Microorganisms Hybrid Nanofluid Flow Induced by a Wavy Fluctuating Spinning Disc. Coatings, 2021, 11, 1032.	1.2	46
32	Hybrid nanofluid flow in a Darcy-Forchheimer permeable medium over a flat plate due to solar radiation. Case Studies in Thermal Engineering, 2021, 26, 100955.	2.8	62
33	Fractional optimal control of COVID-19 pandemic model with generalized Mittag-Leffler function. Advances in Difference Equations, 2021, 2021, 387.	3.5	29
34	New similarity variable to transform the fluid flow from PDEs into fractional-order ODEs: Numerical study. Physica Scripta, 2021, 96, 084009.	1.2	6
35	Hybrid nanofluid flow through a spinning Darcy–Forchheimer porous space with thermal radiation. Scientific Reports, 2021, 11, 16708.	1.6	39
36	Non-linear convective flow of the thin film nanofluid over an inclined stretching surface. Scientific Reports, 2021, 11, 18410.	1.6	29

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37	Magnetohydrodynamic Impact on Carreau Thin Film Couple Stress Nanofluid Flow over an Unsteady Stretching Sheet. Mathematical Problems in Engineering, 2021, 2021, 1-10.	0.6	11
38	Gravity-driven hydromagnetic flow of couple stress hybrid nanofluid with homogenous-heterogeneous reactions. Scientific Reports, 2021, 11, 17498.	1.6	11
39	Electromagnetic couple stress film flow of hybrid nanofluid over an unsteady rotating disc. International Communications in Heat and Mass Transfer, 2021, 127, 105562.	2.9	42
40	MHD thin film flow of the Oldroyd-B fluid together with bioconvection and activation energy. Case Studies in Thermal Engineering, 2021, 27, 101218.	2.8	22
41	Boundary layer stagnation point flow of the Casson hybrid nanofluid over an unsteady stretching surface. AIP Advances, 2021, 11, .	0.6	31
42	Hybrid nanofluid flow within the conical gap between the cone and the surface of a rotating disk. Scientific Reports, 2021, 11, 1180.	1.6	95
43	Darcy-Forchheimer Hybrid Nano Fluid Flow with Mixed Convection Past an Inclined Cylinder. Computers, Materials and Continua, 2021, 66, 2025-2039.	1.5	34
44	Darcyâ€"Forchheimer couple stress hybrid nanofluids flow with variable fluid properties. Scientific Reports, 2021, 11, 19612.	1.6	19
45	The Flow of Blood-Based Hybrid Nanofluids with Couple Stresses by the Convergent and Divergent Channel for the Applications of Drug Delivery. Molecules, 2021, 26, 6330.	1.7	22
46	Fractional order stagnation point flow of the hybrid nanofluid towards a stretching sheet. Scientific Reports, 2021, 11, 20429.	1.6	40
47	Effect of the Number of Nozzles of Swirl Flow Generator Utilized in Flat Plate Solar Collector: An Entropic Analysis. International Journal of Photoenergy, 2021, 2021, 1-10.	1.4	2
48	Thin-film flow of Carreau fluid over a stretching surface including the couple stress and uniform magnetic field. Partial Differential Equations in Applied Mathematics, 2021, 4, 100162.	1.3	10
49	The impact of the Marangoni convection and magnetic field versus blood-based carbon nanotube nanofluids. Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanomaterials, Nanoengineering and Nanosystems, 2020, 234, 37-46.	0.5	5
50	MHD thin film flow of kerosene oil based CNTs nanofluid under the influence of Marangoni convection. Physica Scripta, 2020, 95, 015702.	1.2	15
51	THIN FILM FLOW OF CNTs NANOFLUID OVER A THIN NEEDLE SURFACE. Surface Review and Letters, 2020, 27, 1950189.	0.5	2
52	Viscous dissipated hybrid nanoliquid flow with Darcyâ€"Forchheimer and forced convection over a moving thin needle. AIP Advances, 2020, 10, .	0.6	28
53	Optimal control analysis of tuberculosis (TB) with vaccination and treatment. European Physical Journal Plus, 2020, 135, 1.	1.2	19
54	Inï¬‚uence of dynamics viscosity on the water base CNTs nanofluid flow over a stretching surface. Cogent Engineering, 2020, 7, 1772945.	1.1	4

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55	Heat and mass transfer together with hybrid nanofluid flow over a rotating disk. AIP Advances, 2020, 10, .	0.6	120
56	Magnetic Dipole Impact on the Hybrid Nanofluid Flow over an Extending Surface. Scientific Reports, 2020, 10, 8474.	1.6	76
57	Instability of magneto hydro dynamics Couette flow for electrically conducting fluid through porous media. Applied Nanoscience (Switzerland), 2020, 10, 5125-5134.	1.6	10
58	Thin film flow of the water€based carbon nanotubes hybrid nanofluid under the magnetic effects. Heat Transfer, 2020, 49, 3211-3227.	1.7	36
59	CNTs-Nanofluid flow in a Rotating system between the gap of a disk and cone. Physica Scripta, 2020, 95, 125202.	1.2	32
60	The unsteady liquid film flow of the carbon nanotubes engine oil nanofluid over a non-linear radially extending surface. Thermal Science, 2020, 24, 951-963.	0.5	5
61	A fractional order HBV model with hospitalization. Discrete and Continuous Dynamical Systems - Series S, 2020, 13, 957-974.	0.6	16
62	Effect of the Marangoni Convection in the Unsteady Thin Film Spray of CNT Nanofluids. Processes, 2019, 7, 392.	1.3	10
63	The Heat and Mass Transfer Analysis During Bunch Coating of a Stretching Cylinder by Casson Fluid. , 2019, , .		0
64	Impact of the Marangoni and thermal radiation convection on the graphene-oxide-water-based and ethylene-glycol-based nanofluids. Advances in Mechanical Engineering, 2019, 11, 168781401985677.	0.8	34
65	An improved form of optimal homotopy asymptotic method for the solution of a system of nonlinear coupled differential equations occurring in the phenomenon of fluid mechanics. AIP Conference Proceedings, 2019, , .	0.3	2
66	The Impact of Viscous Dissipation on the Thin Film Unsteady Flow of GO-EG/GO-W Nanofluids. Mathematics, 2019, 7, 653.	1.1	21
67	Thermal Performance of the Graphene Oxide Nanofluids Flow in an Upright Channel Through a Permeable Medium. IEEE Access, 2019, 7, 102345-102355.	2.6	18
68	The flow of nano-liquid film in the presence of operative Prandtl number model through an unsteady stretchable disc. AIP Advances, 2019, 9, .	0.6	7
69	Impact of thermal radiation on electrical MHD rotating flow of Carbon nanotubes over a stretching sheet. AIP Advances, 2019, 9, .	0.6	77
70	Darcy Forchheimer nanofluid thin film flow of SWCNTs and heat transfer analysis over an unsteady stretching sheet. AIP Advances, 2019, 9, .	0.6	63
71	Marangoni liquid film scattering over an extending cylinder. Theoretical and Applied Mechanics Letters, 2019, 9, 106-112.	1.3	9
72	Modeling the transmission dynamics of tuberculosis in Khyber Pakhtunkhwa Pakistan. Advances in Mechanical Engineering, 2019, 11, 168781401985483.	0.8	23

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73	Three-Dimensional Casson Nanofluid Thin Film Flow over an Inclined Rotating Disk with the Impact of Heat Generation/Consumption and Thermal Radiation. Coatings, 2019, 9, 248.	1.2	44
74	Integer and Non-Integer Order Study of the GO-W/GO-EG Nanofluids Flow by Means of Marangoni Convection. Symmetry, 2019, 11, 640.	1.1	19
75	Influence of Inclined Magnetic Field on Carreau Nanoliquid Thin Film Flow and Heat Transfer with Graphene Nanoparticles. Energies, 2019, 12, 1459.	1.6	55
76	MHD Thin Film Flow and Thermal Analysis of Blood with CNTs Nanofluid. Coatings, 2019, 9, 175.	1.2	60
77	Fractional Order Forced Convection Carbon Nanotube Nanofluid Flow Passing Over a Thin Needle. Symmetry, 2019, 11, 312.	1.1	40
78	Modeling and analysis of Tuberculosis (TB) in Khyber Pakhtunkhwa, Pakistan. Mathematics and Computers in Simulation, 2019, 165, 181-199.	2.4	47
79	Unsteady Nano-Liquid Spray with Thermal Radiation Comprising CNTs. Processes, 2019, 7, 181.	1.3	7
80	Thin Film Flow of Micropolar Fluid in a Permeable Medium. Coatings, 2019, 9, 98.	1.2	18
81	The impact of the magnetic field and viscous dissipation on the thin film unsteady flow of GO-EG/GO-W nanofluids. Journal of Physics: Conference Series, 2019, 1366, 012031.	0.3	5
82	Solution of nonlinear problems by a new analytical technique using Daftardar-Gejji and Jafari polynomials. Advances in Mechanical Engineering, 2019, 11, 168781401989696.	0.8	7
83	The flow of ferromagnetic nanofluid over an extending surface under the effect of operative Prandtl model: A numerical study. Advances in Mechanical Engineering, 2019, 11, 168781401989612.	0.8	7
84	The carbon-nanotube nanofluid sprayed on an unsteady stretching cylinder together with entropy generation. Advances in Mechanical Engineering, 2019, 11, 168781401989445.	0.8	7
85	Effective Prandtl Number Model Influences on the $\gamma \text{Al}_2\text{O}_3$ – H_2O H 2 O and $\gamma \text{Al}_2\text{O}_3$ – $\text{C}_2\text{H}_6\text{O}_2$ C 2 H 6 O 2 Nanofluids Spray Along a Stretching Cylinder. Arabian Journal for Science and Engineering, 2019, 44, 1601-1616.	1.7	32
86	SCATTERING OF A THIN LAYER OVER A NONLINEAR RADIALLY EXTENDING SURFACE WITH MAGNETO HYDRODYNAMIC AND THERMAL DISSIPATION. Surface Review and Letters, 2019, 26, 1850123.	0.5	15
87	The natural convective graphene oxide nanofluid flow in an upright squeezing channel. Thermal Science, 2019, 23, 1981-1989.	0.5	4
88	The electrical MHD and Hall current impact on micropolar nanofluid flow between rotating parallel plates. Results in Physics, 2018, 9, 1201-1214.	2.0	181
89	Three-dimensional rotating flow of MHD single wall carbon nanotubes over a stretching sheet in presence of thermal radiation. Applied Nanoscience (Switzerland), 2018, 8, 1361-1378.	1.6	73
90	Thin film flow of a second grade fluid in a porous medium past a stretching sheet with heat transfer. AEJ - Alexandria Engineering Journal, 2018, 57, 1019-1031.	3.4	93

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91	Three non-Newtonian fluids flow considering thin film over an unsteady stretching surface with variable fluid properties. Advances in Mechanical Engineering, 2018, 10, 168781401880736.	0.8	23
92	The study of the entropy generation in a thin film flow with variable fluid properties past over a stretching sheet. Advances in Mechanical Engineering, 2018, 10, 168781401878952.	0.8	36
93	Solutions of nonlinear real world problems by a new analytical technique. Heliyon, 2018, 4, e00913.	1.4	9
94	Fractional-order three-dimensional thin-film nanofluid flow on an inclined rotating disk. European Physical Journal Plus, 2018, 133, 1.	1.2	38
95	Three dimensional third grade nanofluid flow in a rotating system between parallel plates with Brownian motion and thermophoresis effects. Results in Physics, 2018, 10, 36-45.	2.0	76
96	Impact of Thermal Radiation and Heat Source/Sink on Eyring–Powell Fluid Flow over an Unsteady Oscillatory Porous Stretching Surface. Mathematical and Computational Applications, 2018, 23, 20.	0.7	20
97	The experimental study to examine the stable dispersion of the graphene nanoparticles and to look at the GO–H2O nanofluid flow between two rotating disks. Applied Nanoscience (Switzerland), 2018, 8, 1711-1727.	1.6	73
98	Heat Transmission in the Liquid Film Flow of Micropolar Fluid in a Poros Medium Over a Stretching Sheet with Thermal Radiation. Journal of Nanofluids, 2018, 7, 316-324.	1.4	2
99	A new analytical approach for solving nonlinear boundary value problems arising in nonlinear phenomena. Filomat, 2018, 32, 2489-2497.	0.2	4
100	Thermophoresis and thermal radiation with heat and mass transfer in a magnetohydrodynamic thin-film second-grade fluid of variable properties past a stretching sheet. European Physical Journal Plus, 2017, 132, 1.	1.2	84
101	Magnetohydrodynamics thin film fluid flow under the effect of thermophoresis and variable fluid properties. AICHE Journal, 2017, 63, 5149-5158.	1.8	11
102	Vibratory motion of fourth order fluid film over a unsteady heated flat. AIP Conference Proceedings, 2017, , .	0.3	0
103	A simple algorithm for exact solutions of systems of linear and nonlinear integro-differential equations. Applied Mathematics and Computation, 2017, 307, 311-320.	1.4	5
104	Mixed convection in gravity-driven thin film non-Newtonian nanofluids flow with gyrotactic microorganisms. Results in Physics, 2017, 7, 4033-4049.	2.0	86
105	A convective study of Al2O3-H2O and Cu- H2O nano-liquid films sprayed over a stretching cylinder with viscous dissipation. European Physical Journal Plus, 2017, 132, 1.	1.2	40
106	Magnetohydrodynamic Nanoliquid Thin Film Sprayed on a Stretching Cylinder with Heat Transfer. Applied Sciences (Switzerland), 2017, 7, 271.	1.3	126
107	Heat Transfer Investigation of the Unsteady Thin Film Flow of Williamson Fluid Past an Inclined and Oscillating Moving Plate. Applied Sciences (Switzerland), 2017, 7, 369.	1.3	10
108	The Brownian and Thermophoretic Analysis of the Non-Newtonian Williamson Fluid Flow of Thin Film in a Porous Space over an Unstable Stretching Surface. Applied Sciences (Switzerland), 2017, 7, 404.	1.3	15

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109	Dufour and Soret Effect with Thermal Radiation on the Nano Film Flow of Williamson Fluid Past Over an Unsteady Stretching Sheet. Journal of Nanofluids, 2017, 6, 243-253.	1.4	7
110	Brownian Motion and Thermophoresis Effects on MHD Mixed Convective Thin Film Second-Grade Nanofluid Flow with Hall Effect and Heat Transfer Past a Stretching Sheet. Journal of Nanofluids, 2017, 6, 812-829.	1.4	68
111	Flow of a Nano-Liquid Film of Maxwell Fluid with Thermal Radiation and Magneto Hydrodynamic Properties on an Unstable Stretching Sheet. Journal of Nanofluids, 2017, 6, 1021-1030.	1.4	25
112	Unsteady magnetohydrodynamics thin film flow of a third grade fluid over an oscillating inclined belt embedded in a porous medium. Thermal Science, 2017, 21, 875-887.	0.5	7
113	Thin Film Williamson Nanofluid Flow with Varying Viscosity and Thermal Conductivity on a Time-Dependent Stretching Sheet. Applied Sciences (Switzerland), 2016, 6, 334.	1.3	36
114	Heat transfer and hydromagnetic effects on the unsteady thin film flow of Oldroyd-B fluid over an oscillating moving vertical plate. AIP Conference Proceedings, 2016, , .	0.3	1
115	Unsteady thin film flow of a fourth grade fluid over a vertical moving and oscillating belt. Propulsion and Power Research, 2016, 5, 223-235.	2.0	9
116	New version of Optimal Homotopy Asymptotic Method for the solution of nonlinear boundary value problems in finite and infinite intervals. AEJ - Alexandria Engineering Journal, 2016, 55, 2811-2819.	3.4	19
117	The ADM solution of MHD non-Newtonian fluid with transient flow and heat transfer. AIP Conference Proceedings, 2016, , .	0.3	1
118	Soret and Dufour effect on the thin film flow over an unsteady stretching surface. AIP Conference Proceedings, 2016, , .	0.3	1
119	Two-Layer Coating Flows and Heat Transfer in Two Immiscible Third Grade Fluid. Journal of Computational and Theoretical Nanoscience, 2016, 13, 5327-5342.	0.4	3
120	Analysis of thin film flow over a vertical oscillating belt with a second grade fluid. Engineering Science and Technology, an International Journal, 2015, 18, 207-217.	2.0	7
121	Unsteady MHD Thin Film Flow of an Oldroyd-B Fluid over an Oscillating Inclined Belt. PLoS ONE, 2015, 10, e0126698.	1.1	21
122	Analysis of Ellis Fluid in Wire Coating. VFAST Transactions on Mathematics, 2015, 7, 1.	0.0	6
123	Unsteady MHD flow and heat transfer of third grade fluid past on oscillating inclined belt. Science Postprint, 2015, 1, .	0.3	1
124	Thin Film Flow in MHD Third Grade Fluid on a Vertical Belt with Temperature Dependent Viscosity. PLoS ONE, 2014, 9, e97552.	1.1	28
125	Heat Transfer Analysis of MHD Thin Film Flow of an Unsteady Second Grade Fluid Past a Vertical Oscillating Belt. PLoS ONE, 2014, 9, e103843.	1.1	26
126	Prevention of Leptospirosis Infected Vector and Human Population by Multiple Control Variables. Abstract and Applied Analysis, 2014, 2014, 1-9.	0.3	6

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127	MHD Thin Film Flows of a Third Grade Fluid on a Vertical Belt with Slip Boundary Conditions. Journal of Applied Mathematics, 2013, 2013, 1-14.	0.4	28
128	Stability analysis of an SVIR epidemic model with non-linear saturated incidence rate. Applied Mathematical Sciences, 0, 9, 1145-1158.	0.0	5
129	Mathematical analysis of typhoid model with saturated incidence rate. Advanced Studies in Biology, 0, 7, 65-78.	0.2	22
130	The parametric computation of nonlinear convection magnetohydrodynamic nanofluid flow with internal heating across a fixed and spinning disk. Waves in Random and Complex Media, 0, , 1-16.	1.6	17
131	Nonlinear mixed convection couple stress tri-hybrid nanofluids flow in a Darcyâ€"Forchheimer porous medium over a nonlinear stretching surface. Waves in Random and Complex Media, 0, , 1-18.	1.6	13
132	Thin-film Maxwell hybrid nanofluid flow over an unsteady inclined stretching sheet in terms of nonlinear mixed convection. Waves in Random and Complex Media, 0, , 1-19.	1.6	2